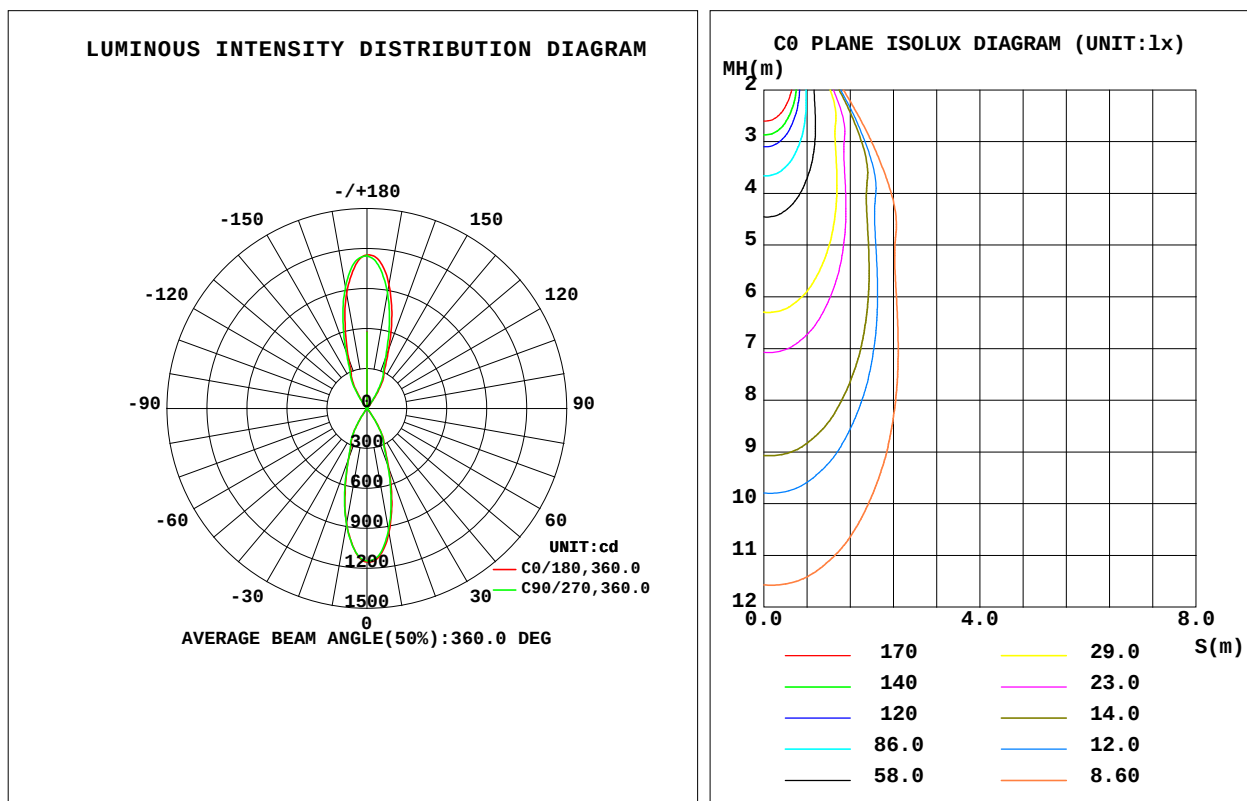


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.62 lm/W			
MODEL	1994C	I _{max} (cd)	1153	S/MH(C0/180)	0.54
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	975.16	h UP, DN(C0-180)	24.4, 25.7
NOMINAL FLUX(lm)	487.582	CIE CLASS	DIFFUSE	h UP, DN(C180-360)	25.6, 24.3
LAMPS INSIDE	2	h up(%)	50.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230.0	h down(%)	50.0	CIBSE SHR MAX	0.55



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: LQL
Test Date: 18 November 2019

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.258m [K=0.9748]
Remarks: AC 2x8W

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

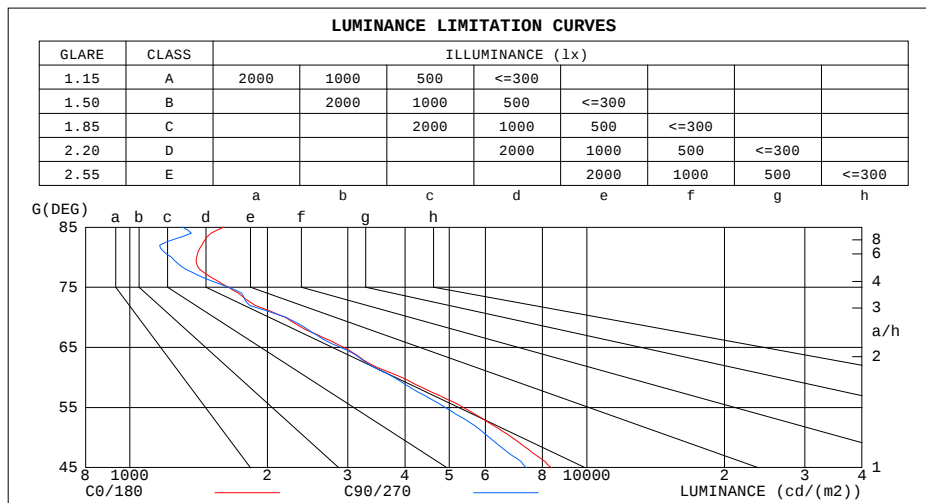
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	949.9	947.9	928.4	894.8	881.0	874.9	885.7	914.5	0- 10	97.69	97.69	10,10
20	483.7	485.5	461.8	428.4	413.5	403.9	414.2	450.7	10- 20	184.4	282.1	28.9, 28.9
30	228.9	228.9	217.0	194.4	182.6	179.3	187.8	212.8	20- 30	138.4	420.5	43.1, 43.1
40	25.21	24.99	21.40	16.61	14.87	14.37	16.54	21.87	30- 40	53.65	474.1	48.6, 48.6
50	6.620	6.429	5.904	5.449	5.438	5.518	5.875	6.377	40- 50	7.201	481.3	49.4, 49.4
60	2.953	2.942	2.841	2.530	2.419	2.436	2.573	2.809	50- 60	3.722	485.0	49.7, 49.7
70	1.123	1.141	1.127	0.9601	0.8919	0.8821	0.9225	1.076	60- 70	1.730	486.8	49.9, 49.9
80	0.3647	0.3469	0.3211	0.3076	0.2498	0.2714	0.3145	0.3249	70- 80	0.6293	487.4	50, 50
90	0.0857	0.0826	0.0714	0.0714	0.0643	0.0603	0.0643	0.0567	80- 90	0.1866	487.6	50, 50
100	0.3647	0.3249	0.3145	0.2714	0.2498	0.3076	0.3211	0.3469	90-100	0.1866	487.8	50, 50
110	1.123	1.076	0.9225	0.8821	0.8919	0.9601	1.127	1.141	100-110	0.6293	488.4	50.1, 50.1
120	2.953	2.809	2.573	2.436	2.419	2.530	2.841	2.942	110-120	1.730	490.1	50.3, 50.3
130	6.620	6.377	5.875	5.518	5.438	5.449	5.904	6.429	120-130	3.722	493.8	50.6, 50.6
140	25.21	21.87	16.54	14.37	14.87	16.61	21.40	24.99	130-140	7.201	501.0	51.4, 51.4
150	228.9	212.8	187.8	179.3	182.6	194.4	217.0	228.9	140-150	53.65	554.7	56.9, 56.9
160	483.7	450.7	414.2	403.9	413.5	428.4	461.8	485.5	150-160	138.4	693.1	71.1, 71.1
170	949.9	914.5	885.7	874.9	881.0	894.8	928.4	947.9	160-170	184.4	877.5	90, 90
180	1151	1151	1151	1151	1151	1151	1151	1151	170-180	97.69	975.2	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: LQL
Test Date: 18 November 2019

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.258m [K=0.9748]
Remarks: AC 2x8W

LUMINANCE LIMITATION CURVES

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1608	1303
80	1400	1233
75	1643	1647
70	2188	2197
65	2935	2892
60	3937	3788
55	5368	4904
50	6865	6123
45	8365	7376

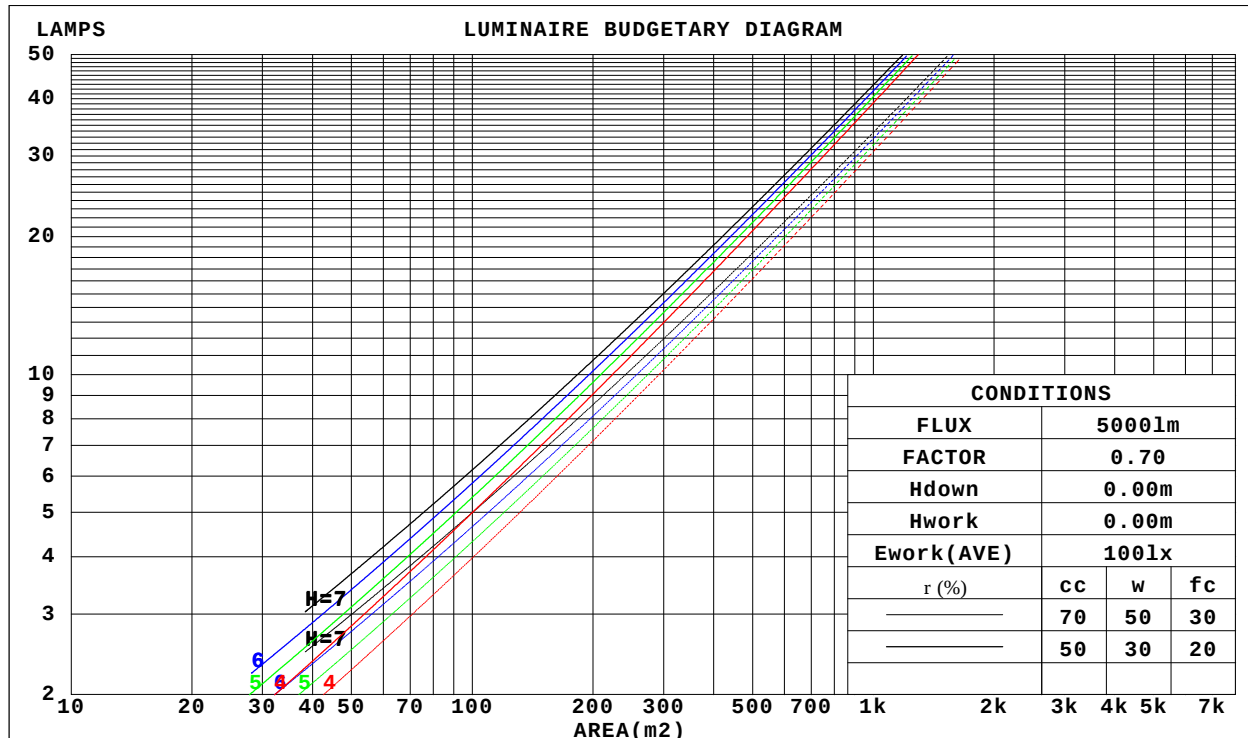
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: LQL
Test Date: 18 November 2019

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.258m [K=0.9748]
Remarks: AC 2x8W

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.07	1.07	1.07	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.97	.94	.92	.90	.88	.86	.77	.75	.74	.65	.64	.63	.54	.53	.53	.48
2.0	.89	.84	.80	.83	.79	.76	.71	.69	.66	.61	.59	.58	.51	.50	.49	.45
3.0	.81	.76	.71	.76	.71	.68	.66	.63	.60	.57	.55	.53	.49	.48	.46	.43
4.0	.75	.69	.64	.70	.65	.61	.62	.58	.55	.54	.52	.50	.47	.45	.44	.41
5.0	.69	.63	.59	.66	.60	.56	.58	.54	.51	.51	.48	.46	.45	.43	.41	.39
6.0	.65	.58	.54	.61	.56	.52	.55	.51	.48	.48	.46	.43	.43	.41	.39	.37
7.0	.60	.54	.50	.57	.52	.48	.51	.47	.44	.46	.43	.41	.41	.39	.37	.35
8.0	.57	.51	.46	.54	.49	.45	.49	.45	.42	.44	.41	.39	.39	.37	.36	.34
9.0	.53	.47	.43	.51	.46	.42	.46	.42	.39	.42	.39	.37	.38	.36	.34	.32
10.0	.50	.45	.41	.48	.43	.40	.44	.40	.37	.40	.37	.35	.36	.34	.33	.31



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: LQL
 Test Date: 18 November 2019

g Range: 0 - 180DEG
 Interval: 0.5DEG
 Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
 Humidity: 65.0%
 Test Distance: 10.258m [K=0.9748]
 Remarks: AC 2x8W

WEC AND CCEC

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm					
NAME: Nova Square AC double 2x8W 36° Miny			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

r c c	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r f c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.208	.118	.037	.186	.106	.034	.145	.083	.027	.107	.062	.020	.072	.042	.014	
2.0	.193	.106	.032	.173	.095	.029	.136	.076	.023	.102	.057	.018	.070	.040	.013	
3.0	.180	.096	.029	.162	.087	.026	.128	.069	.021	.097	.053	.016	.068	.038	.012	
4.0	.168	.087	.026	.151	.079	.023	.121	.064	.019	.092	.049	.015	.065	.035	.011	
5.0	.157	.080	.023	.142	.073	.021	.114	.059	.017	.088	.046	.014	.063	.034	.010	
6.0	.148	.074	.021	.134	.068	.019	.108	.055	.016	.083	.043	.013	.061	.032	.009	
7.0	.139	.069	.020	.127	.063	.018	.102	.052	.015	.080	.041	.012	.058	.030	.009	
8.0	.132	.064	.018	.120	.059	.017	.097	.049	.014	.076	.039	.011	.056	.029	.008	
9.0	.125	.060	.017	.114	.056	.016	.093	.046	.013	.073	.037	.010	.054	.028	.008	
10.0	.119	.057	.016	.108	.052	.015	.089	.043	.012	.070	.035	.010	.052	.026	.008	

r c c	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r f c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.571	.571	.571	.488	.488	.488	.333	.333	.333	.191	.191	.191	.061	.061	.061	
1.0	.557	.541	.527	.477	.464	.453	.326	.320	.313	.188	.185	.182	.060	.060	.059	
2.0	.546	.519	.497	.467	.447	.429	.320	.309	.299	.185	.180	.176	.059	.058	.057	
3.0	.536	.502	.476	.459	.433	.413	.315	.301	.289	.182	.176	.171	.059	.057	.056	
4.0	.527	.490	.461	.452	.423	.400	.311	.295	.282	.180	.173	.167	.058	.056	.055	
5.0	.520	.480	.450	.446	.415	.391	.307	.290	.276	.178	.170	.164	.057	.056	.054	
6.0	.513	.471	.442	.441	.408	.385	.304	.286	.272	.176	.168	.162	.057	.055	.053	
7.0	.507	.465	.435	.436	.403	.379	.301	.282	.269	.175	.166	.160	.057	.054	.053	
8.0	.501	.459	.430	.432	.398	.375	.299	.280	.266	.174	.165	.159	.056	.054	.053	
9.0	.497	.455	.426	.428	.395	.372	.296	.277	.264	.173	.164	.158	.056	.054	.052	
10.0	.492	.451	.423	.424	.391	.369	.294	.275	.262	.172	.163	.157	.056	.053	.052	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:18 November 2019

Range: 0 - 180DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.258m [K=0.9748]
 Remarks: AC 2x8W

UGR(Unified Glare Rating) Table

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm											
NAME: Nova Square AC double 2x8W 36° Miny					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	14.3	15.0	15.2	15.8	16.8	13.8	14.5	14.6	15.3	16.3	
	3H	14.1	14.7	14.9	15.5	16.6	13.5	14.1	14.4	15.0	16.0
	4H	13.9	14.5	14.8	15.3	16.4	13.4	14.0	14.3	14.8	15.9
	6H	13.7	14.3	14.7	15.2	16.3	13.2	13.7	14.1	14.6	15.7
	8H	13.7	14.2	14.6	15.1	16.2	13.1	13.6	14.1	14.5	15.7
	12H	13.6	14.1	14.5	15.0	16.1	13.1	13.5	14.0	14.4	15.6
4H	2H	13.9	14.5	14.8	15.3	16.4	13.4	13.9	14.2	14.8	15.9
	3H	13.6	14.1	14.5	15.0	16.1	13.1	13.6	14.0	14.5	15.6
	4H	13.4	13.9	14.4	14.8	16.0	12.9	13.4	13.9	14.3	15.5
	6H	13.3	13.6	14.2	14.6	15.8	12.8	13.1	13.7	14.1	15.3
	8H	13.2	13.5	14.2	14.5	15.7	12.7	13.0	13.7	14.0	15.2
	12H	13.1	13.4	14.1	14.4	15.6	12.6	12.9	13.6	13.9	15.1
8H	4H	13.2	13.5	14.2	14.5	15.7	12.7	13.0	13.6	14.0	15.2
	6H	13.0	13.3	14.0	14.3	15.5	12.5	12.8	13.5	13.8	15.0
	8H	12.9	13.2	13.9	14.2	15.5	12.4	12.6	13.4	13.6	14.9
	12H	12.8	13.0	13.9	14.0	15.4	12.3	12.5	13.3	13.5	14.9
12H	4H	13.1	13.4	14.1	14.4	15.6	12.6	12.9	13.6	13.8	15.1
	6H	12.9	13.1	13.9	14.1	15.4	12.4	12.6	13.4	13.6	14.9
	8H	12.8	13.0	13.8	14.0	15.4	12.3	12.5	13.3	13.5	14.9
Variations with the observer position at spacings:											
S = 1.0H	+ 3.9 / - 5.0					+ 3.7 / - 4.6					
1.5H	+ 6.2 / - 3.8					+ 5.9 / - 3.5					
2.0H	+ 1.9 / - 1.8					+ 1.6 / - 1.5					

CIE Pub.117, 975.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:18 November 2019

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.258m [K=0.9748]
 Remarks: AC 2x8W

UTILIZATION FACTORS TABLE

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

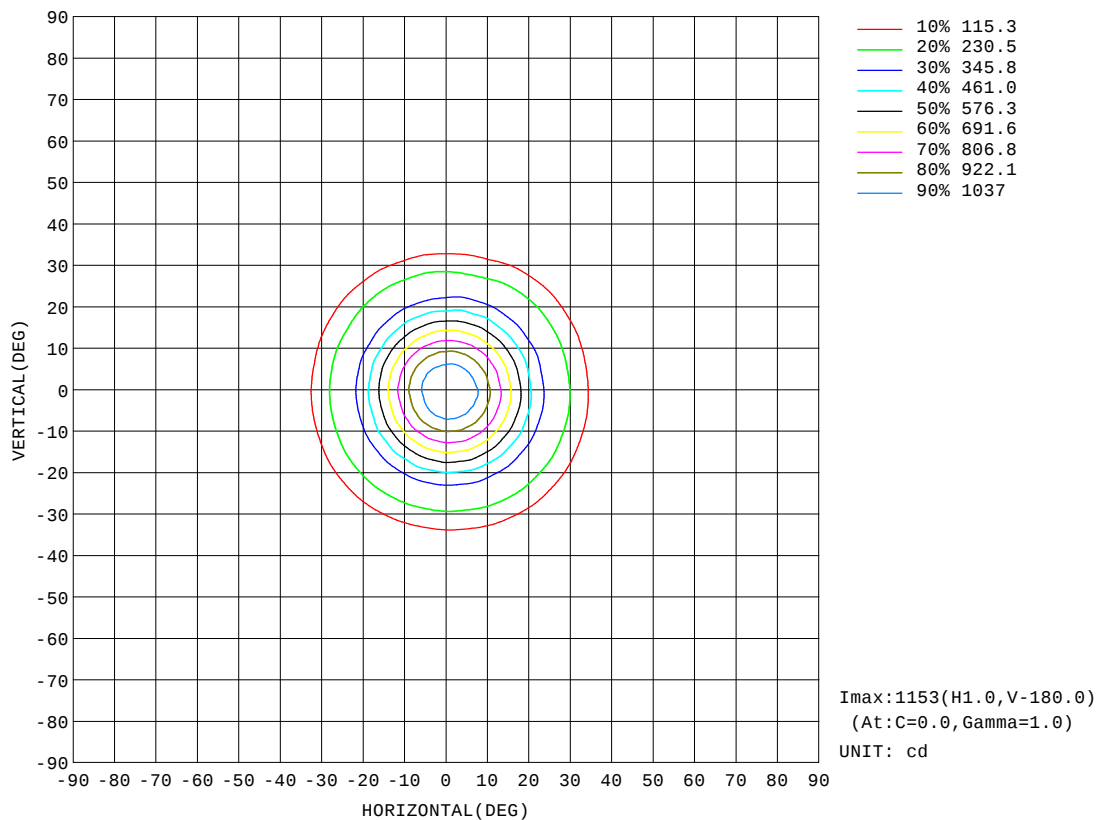
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	53	48	58	51	47	53	48	45	38
0.80	69	61	56	65	58	54	59	54	51	42
1.00	74	66	61	70	63	59	63	58	55	44
1.25	79	72	66	75	68	64	66	62	59	46
1.50	83	76	71	78	72	68	69	65	62	47
2.00	88	82	77	82	77	73	72	68	65	48
2.50	91	85	81	85	80	76	74	71	68	48
3.00	94	89	84	87	83	79	75	72	70	49
4.00	97	93	89	90	87	84	77	75	73	49
5.00	99	96	93	92	89	87	79	77	75	50
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: LQL
Test Date: 18 November 2019

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.258m [K=0.9748]
Remarks: AC 2x8W

ISOCANDELA DIAGRAM

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

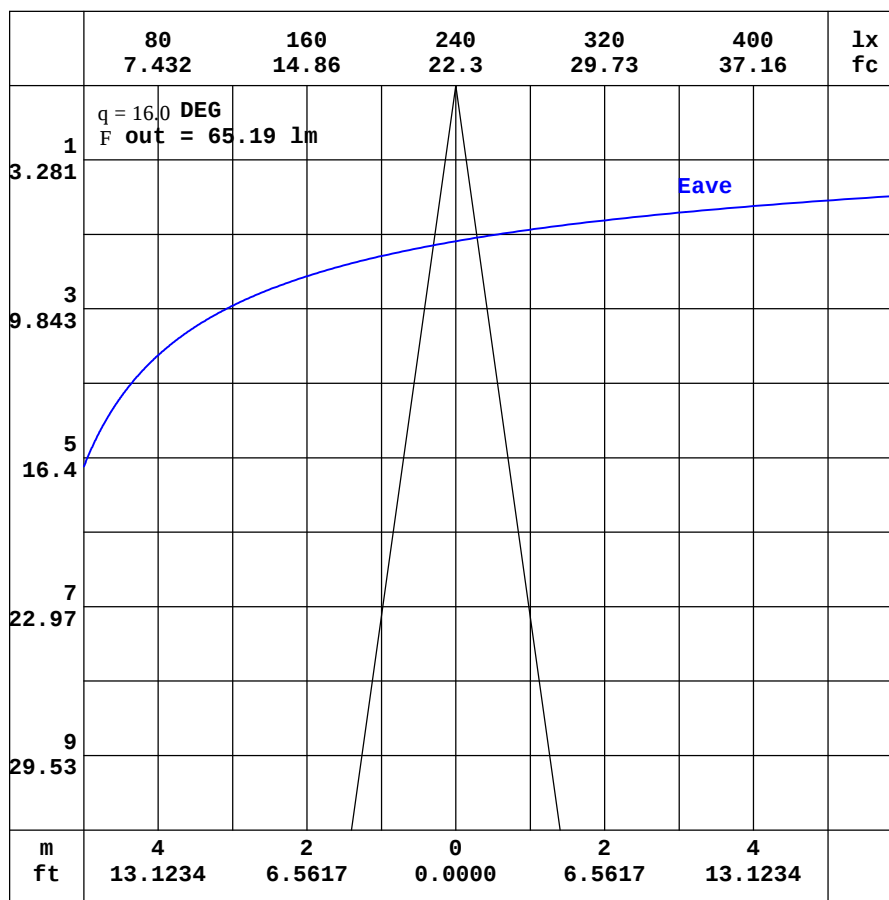


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:LQL
Test Date:18 November 2019

Range: 0 - 180DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.258m [K=0.9748]
Remarks: AC 2x8W

AAI CURVES

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



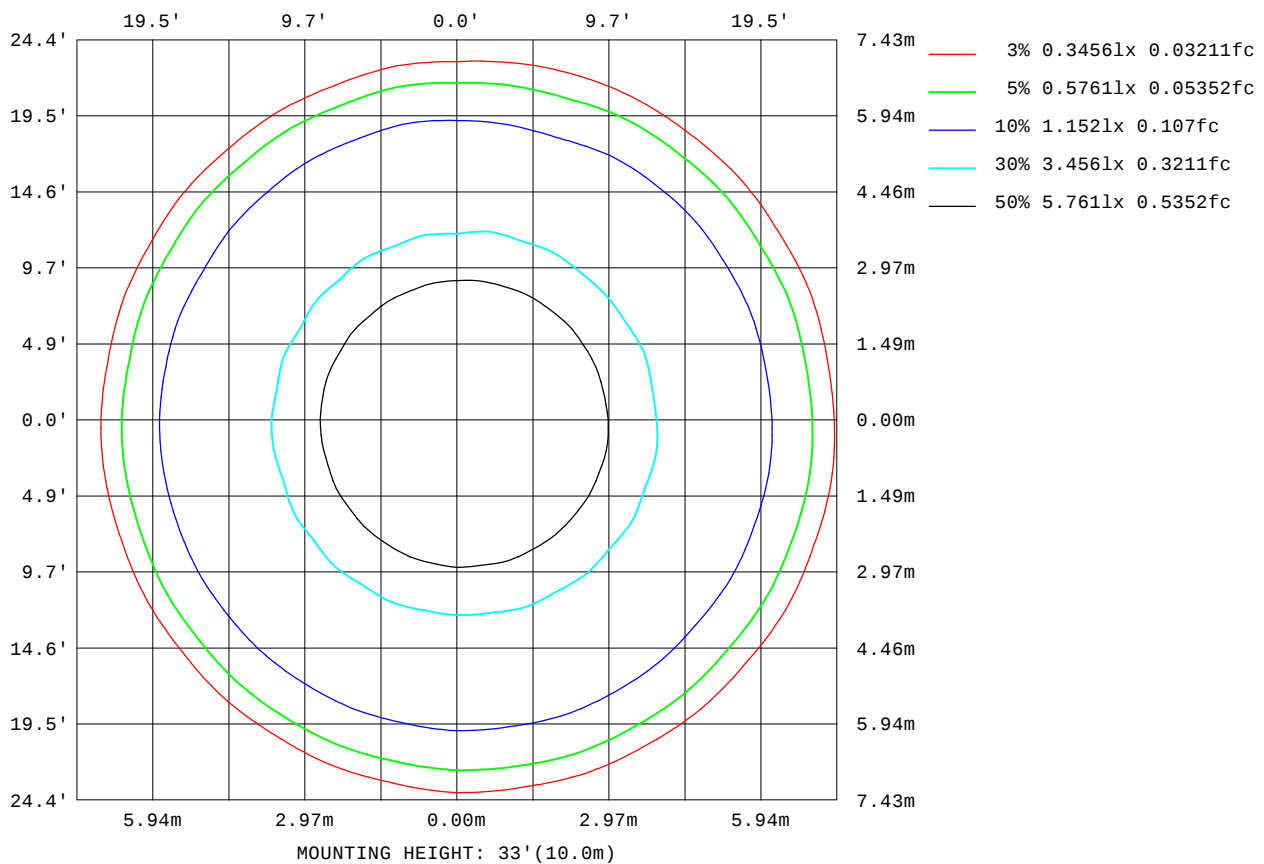
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: LQL
Test Date: 18 November 2019

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.258m [K=0.9748]
Remarks: AC 2x8W

ISOLUX DIAGRAM

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: LQL
Test Date: 18 November 2019

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity: 65.0%
Test Distance: 10.258m [K=0.9748]
Remarks: AC 2x8W

LED Avg.L Report

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm		
NAME: Nova Square AC double 2x8W 36° Miny	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

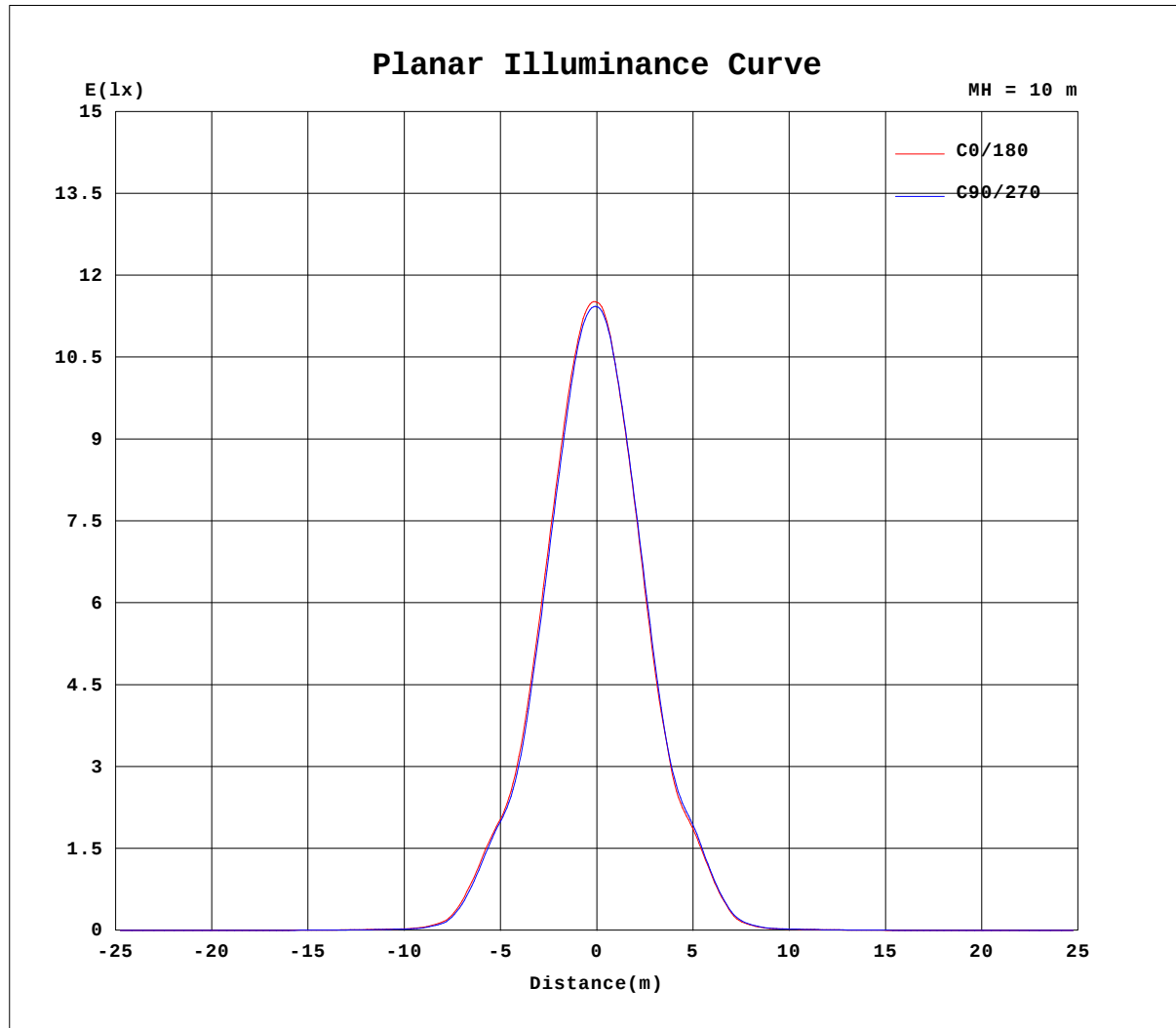
AvgL	cd/m2
L_0~180(65)av	2692
L_0~180(75)av	1475
L_0~180(85)av	1262
L_90~270(65)av	2711
L_90~270(75)av	1490
L_90~270(85)av	1279
L_45(65)av	2687
L_45(75)av	1470
L_45(85)av	1261

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:LQL
 Test Date:18 November 2019

Range: 0 - 180DEG
 Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.403
 Humidity:65.0%
 Test Distance:10.258m [K=0.9748]
 Remarks: AC 2x8W

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: LQL
 Test Date: 18 November 2019

Range: 0 - 180DEG
 Interval: 0.5DEG
 Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.403
 Humidity: 65.0%
 Test Distance: 10.258m [K=0.9748]
 Remarks: AC 2x8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm																	
NAME: Nova Square AC double 2x8W 36° Miny									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--1
UNIT: cd

C(°) g (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1151	1148	1146	1147	1148	1147	1146	1145	1145	1146	1146	1147	1146	1146	1145	1144	1143	1143	1143
5	1110	1113	1115	1114	1112	1110	1109	1110	1110	1110	1109	1106	1104	1104	1104	1101	1098	1099	1099
10	950	953	954	951	948	951	953	950	947	948	948	942	937	938	939	934	929	929	928
15	725	730	732	730	728	729	731	730	728	727	727	722	718	718	718	711	703	702	702
20	484	488	490	488	487	489	492	489	485	485	486	483	479	478	477	470	464	463	462
25	312	313	314	314	313	313	313	311	310	310	310	308	306	306	306	304	302	303	303
30	229	231	232	231	230	232	233	231	228	229	230	229	227	226	225	222	218	217	217
35	98.3	101	102	101	99.8	101	102	99.7	97.7	98.6	99.6	98.0	96.1	96.3	96.0	92.8	89.4	88.9	88.2
40	25.2	25.7	25.9	25.6	25.3	25.5	25.7	25.3	24.9	25.0	25.1	24.6	24.1	24.0	23.8	23.1	22.2	21.8	21.4
45	8.87	8.90	8.88	8.80	8.74	8.78	8.83	8.83	8.82	8.82	8.80	8.69	8.54	8.42	8.27	8.06	7.87	7.83	7.82
50	6.62	6.63	6.62	6.56	6.50	6.50	6.52	6.51	6.49	6.43	6.34	6.21	6.08	6.03	6.00	5.96	5.92	5.91	5.90
55	4.62	4.66	4.66	4.61	4.55	4.55	4.55	4.50	4.44	4.42	4.40	4.35	4.30	4.29	4.29	4.26	4.23	4.22	4.22
60	2.95	2.97	2.98	2.96	2.95	2.96	2.97	2.95	2.93	2.94	2.95	2.95	2.94	2.91	2.89	2.88	2.87	2.86	2.84
65	1.86	1.87	1.88	1.87	1.87	1.88	1.89	1.88	1.88	1.89	1.89	1.88	1.87	1.88	1.88	1.86	1.84	1.84	1.83
70	1.12	1.14	1.16	1.16	1.16	1.16	1.16	1.15	1.13	1.14	1.16	1.15	1.15	1.16	1.16	1.14	1.12	1.13	1.13
75	0.64	0.65	0.66	0.65	0.64	0.65	0.66	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.64	0.64	0.64
80	0.36	0.35	0.35	0.36	0.36	0.35	0.33	0.35	0.36	0.35	0.33	0.34	0.36	0.35	0.34	0.35	0.36	0.34	0.32
85	0.21	0.18	0.18	0.20	0.22	0.20	0.18	0.20	0.22	0.20	0.17	0.19	0.21	0.19	0.17	0.19	0.21	0.19	0.17
90	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.08	0.08	0.08	0.09	0.08	0.07	0.07	0.08	0.07	0.07
95	0.21	0.21	0.20	0.17	0.15	0.17	0.19	0.17	0.15	0.17	0.19	0.16	0.13	0.16	0.18	0.15	0.12	0.14	0.16
100	0.36	0.35	0.34	0.33	0.32	0.34	0.35	0.33	0.31	0.32	0.34	0.32	0.30	0.31	0.31	0.29	0.27	0.29	0.31
105	0.64	0.62	0.62	0.62	0.62	0.61	0.61	0.61	0.61	0.59	0.58	0.57	0.56	0.56	0.55	0.54	0.52	0.52	0.52
110	1.12	1.11	1.10	1.10	1.11	1.09	1.07	1.08	1.09	1.08	1.06	1.06	1.05	1.02	0.99	0.98	0.98	0.95	0.92
115	1.86	1.84	1.83	1.82	1.82	1.81	1.79	1.78	1.77	1.76	1.76	1.75	1.74	1.72	1.69	1.67	1.65	1.63	1.60
120	2.95	2.93	2.91	2.91	2.90	2.88	2.84	2.82	2.81	2.81	2.81	2.81	2.80	2.79	2.76	2.73	2.70	2.63	2.57
125	4.62	4.57	4.54	4.55	4.54	4.48	4.42	4.40	4.39	4.32	4.26	4.26	4.28	4.26	4.23	4.21	4.18	4.09	4.01
130	6.62	6.55	6.53	6.58	6.62	6.57	6.51	6.51	6.49	6.38	6.27	6.25	6.26	6.26	6.25	6.23	6.17	6.02	5.88
135	8.87	8.78	8.74	8.80	8.86	8.82	8.77	8.79	8.81	8.77	8.73	8.73	8.79	9.01	9.19	9.18	9.00	8.53	8.05
140	25.2	24.4	23.9	24.1	24.2	23.4	22.6	22.6	22.6	21.9	21.1	21.1	21.2	20.9	20.4	20.0	19.4	17.9	16.5
145	98.3	95.4	93.6	93.9	93.9	90.6	87.4	87.2	87.1	84.0	80.7	79.5	78.5	75.8	72.8	70.3	67.8	64.8	62.6
150	229	225	222	222	222	219	217	216	216	213	209	207	204	196	189	187	188	187	188
155	312	308	306	305	305	304	302	301	301	298	296	296	296	292	289	290	292	293	292
160	484	478	475	474	474	467	461	459	457	451	446	449	452	443	434	438	441	427	414
165	725	716	711	710	710	705	700	698	696	689	682	680	678	672	665	664	663	657	651
170	950	941	935	935	935	929	923	920	918	914	911	909	906	902	897	897	896	891	886
175	1110	1102	1098	1096	1096	1093	1091	1090	1089	1086	1082	1083	1083	1080	1077	1076	1075	1071	1068
180	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:LQL
Test Date:18 November 2019

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.258m [K=0.9748]
Remarks: AC 2x8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm																	
NAME: Nova Square AC double 2x8W 36° Miny									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--2
UNIT: cd

C(°) g (°)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1141	1140	1140	1140	1140	1139	1139	1139	1138	1137	1137	1137	1138	1139	1138	1138	1145	1151	1149
5	1096	1093	1092	1090	1086	1082	1081	1079	1075	1071	1070	1069	1064	1060	1060	1062	1065	1068	1067
10	923	916	915	913	908	904	902	901	895	889	887	885	880	875	874	875	878	881	877
15	696	690	688	685	678	670	668	666	658	651	650	650	642	635	635	636	636	636	634
20	456	450	453	454	444	434	437	439	428	418	422	425	415	404	407	413	415	413	405
25	301	299	297	296	294	293	292	291	289	287	287	287	284	282	281	281	281	282	281
30	213	209	208	207	204	200	199	198	194	191	190	189	186	184	183	183	183	183	180
35	84.6	80.8	79.6	78.6	75.6	72.6	71.6	70.6	67.4	64.3	63.5	63.1	61.0	59.1	59.0	59.3	59.1	58.4	56.5
40	20.5	19.7	19.4	19.1	18.4	17.7	17.4	17.2	16.6	16.0	15.9	15.8	15.3	14.9	14.9	14.9	14.9	14.9	14.5
45	7.78	7.74	7.73	7.71	7.62	7.52	7.46	7.39	7.30	7.22	7.20	7.20	7.17	7.15	7.17	7.22	7.32	7.41	7.43
50	5.87	5.83	5.80	5.76	5.69	5.62	5.59	5.55	5.45	5.36	5.36	5.38	5.32	5.28	5.30	5.35	5.40	5.44	5.43
55	4.18	4.13	4.11	4.07	4.01	3.94	3.90	3.87	3.81	3.75	3.74	3.74	3.69	3.66	3.66	3.68	3.71	3.74	3.73
60	2.82	2.79	2.77	2.73	2.67	2.61	2.60	2.59	2.53	2.47	2.48	2.50	2.45	2.40	2.41	2.42	2.42	2.42	2.41
65	1.81	1.79	1.77	1.76	1.73	1.69	1.68	1.66	1.63	1.60	1.58	1.57	1.55	1.54	1.54	1.54	1.55	1.55	1.54
70	1.11	1.09	1.08	1.06	1.03	1.00	1.00	0.99	0.96	0.93	0.93	0.93	0.91	0.88	0.88	0.89	0.89	0.89	0.89
75	0.63	0.62	0.62	0.62	0.60	0.58	0.56	0.55	0.55	0.54	0.53	0.52	0.52	0.52	0.51	0.50	0.50	0.51	0.51
80	0.34	0.36	0.34	0.31	0.32	0.34	0.32	0.30	0.31	0.31	0.29	0.27	0.29	0.31	0.28	0.26	0.25	0.25	0.27
85	0.19	0.21	0.18	0.16	0.17	0.19	0.16	0.13	0.16	0.18	0.15	0.13	0.15	0.17	0.15	0.12	0.11	0.12	0.14
90	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.06
95	0.14	0.11	0.13	0.15	0.13	0.11	0.13	0.16	0.14	0.12	0.14	0.16	0.14	0.12	0.13	0.15	0.14	0.12	0.11
100	0.29	0.26	0.28	0.30	0.28	0.26	0.28	0.29	0.27	0.25	0.27	0.29	0.26	0.24	0.27	0.29	0.27	0.25	0.25
105	0.51	0.50	0.51	0.51	0.51	0.50	0.50	0.50	0.49	0.49	0.50	0.51	0.50	0.49	0.50	0.50	0.51	0.51	0.50
110	0.92	0.93	0.90	0.88	0.88	0.89	0.88	0.87	0.88	0.89	0.88	0.87	0.88	0.88	0.88	0.88	0.89	0.89	0.89
115	1.59	1.57	1.56	1.54	1.53	1.52	1.52	1.52	1.53	1.54	1.53	1.52	1.52	1.52	1.52	1.52	1.54	1.55	1.55
120	2.56	2.54	2.49	2.44	2.45	2.46	2.44	2.42	2.44	2.46	2.43	2.40	2.41	2.43	2.41	2.39	2.41	2.42	2.42
125	3.99	3.98	3.92	3.86	3.85	3.84	3.80	3.76	3.79	3.83	3.81	3.79	3.79	3.79	3.75	3.72	3.73	3.74	3.71
130	5.83	5.81	5.72	5.65	5.64	5.63	5.55	5.49	5.52	5.56	5.54	5.52	5.54	5.55	5.49	5.43	5.43	5.44	5.40
135	7.91	7.87	7.78	7.71	7.70	7.70	7.62	7.56	7.62	7.69	7.67	7.64	7.63	7.61	7.53	7.45	7.43	7.41	7.32
140	16.2	16.0	15.3	14.7	14.7	14.8	14.4	14.0	14.4	14.8	14.7	14.5	14.7	14.8	14.5	14.2	14.5	14.9	14.9
145	63.2	63.7	61.0	58.4	58.7	59.3	57.6	56.1	56.9	57.8	56.3	54.8	55.7	56.6	55.7	54.9	56.5	58.4	59.1
150	190	191	187	184	184	185	182	179	179	179	176	174	176	179	179	178	180	183	183
155	290	287	284	283	284	285	282	279	278	278	275	273	276	279	279	280	281	282	281
160	418	424	416	407	413	418	408	399	404	409	400	391	400	410	404	397	405	413	415
165	651	650	644	638	639	640	634	630	632	635	631	627	630	635	634	632	634	636	636
170	886	886	881	877	878	881	877	873	875	877	875	873	874	876	874	872	877	881	878
175	1067	1066	1064	1063	1064	1066	1065	1064	1065	1066	1063	1061	1063	1066	1066	1065	1067	1068	1065
180	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:LQL
Test Date:18 November 2019

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.258m [K=0.9748]
Remarks: AC 2x8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm																	
NAME: Nova Square AC double 2x8W 36° Miny									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--3
UNIT: cd

C(°) g (°)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1146	1147	1148	1147	1146	1145	1145	1146	1146	1147	1146	1146	1145	1144	1143	1143	1143	1141	1140
5	1065	1066	1066	1063	1061	1063	1066	1065	1064	1065	1066	1064	1063	1064	1066	1067	1068	1071	1075
10	872	874	876	874	873	875	877	875	873	877	881	878	877	881	886	886	886	891	896
15	632	634	635	630	627	631	635	632	630	634	640	639	638	644	650	651	651	657	663
20	397	404	409	400	391	400	409	404	399	408	418	413	407	416	424	418	414	427	441
25	280	279	279	276	273	275	278	278	279	282	285	284	283	284	287	290	292	293	292
30	178	179	179	176	174	176	179	179	179	182	185	184	184	187	191	190	188	187	188
35	54.9	55.7	56.6	55.7	54.8	56.3	57.8	56.9	56.1	57.6	59.3	58.7	58.4	61.0	63.7	63.2	62.6	64.8	67.8
40	14.2	14.5	14.8	14.7	14.5	14.7	14.8	14.4	14.0	14.4	14.8	14.7	14.7	15.3	16.0	16.2	16.5	17.9	19.4
45	7.45	7.53	7.61	7.63	7.64	7.67	7.69	7.62	7.56	7.62	7.70	7.70	7.71	7.78	7.87	7.91	8.05	8.53	9.00
50	5.43	5.49	5.55	5.54	5.52	5.54	5.56	5.52	5.49	5.55	5.63	5.64	5.65	5.72	5.81	5.83	5.88	6.02	6.17
55	3.72	3.75	3.79	3.79	3.79	3.81	3.83	3.79	3.76	3.80	3.84	3.85	3.86	3.92	3.98	3.99	4.01	4.09	4.18
60	2.39	2.41	2.43	2.41	2.40	2.43	2.46	2.44	2.42	2.44	2.46	2.45	2.44	2.49	2.54	2.56	2.57	2.63	2.70
65	1.52	1.52	1.52	1.52	1.52	1.53	1.54	1.53	1.52	1.52	1.52	1.53	1.54	1.56	1.57	1.59	1.60	1.63	1.65
70	0.88	0.88	0.88	0.88	0.87	0.88	0.89	0.88	0.87	0.88	0.89	0.88	0.88	0.90	0.93	0.92	0.92	0.95	0.98
75	0.50	0.50	0.49	0.50	0.51	0.50	0.49	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.50	0.51	0.52	0.52	0.52
80	0.29	0.27	0.24	0.26	0.29	0.27	0.25	0.27	0.29	0.28	0.26	0.28	0.30	0.28	0.26	0.29	0.31	0.29	0.27
85	0.15	0.13	0.12	0.14	0.16	0.14	0.12	0.14	0.16	0.13	0.11	0.13	0.15	0.13	0.11	0.14	0.16	0.14	0.12
90	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
95	0.12	0.15	0.17	0.15	0.13	0.15	0.18	0.16	0.13	0.16	0.19	0.17	0.16	0.18	0.21	0.19	0.17	0.19	0.21
100	0.26	0.28	0.31	0.29	0.27	0.29	0.31	0.31	0.30	0.32	0.34	0.32	0.31	0.34	0.36	0.34	0.32	0.34	0.36
105	0.50	0.51	0.52	0.52	0.52	0.53	0.54	0.55	0.55	0.56	0.58	0.60	0.62	0.62	0.62	0.63	0.64	0.64	0.64
110	0.89	0.88	0.88	0.91	0.93	0.93	0.93	0.96	0.99	1.00	1.00	1.03	1.06	1.08	1.09	1.11	1.13	1.13	1.12
115	1.54	1.54	1.54	1.55	1.57	1.58	1.60	1.63	1.66	1.68	1.69	1.73	1.76	1.77	1.79	1.81	1.83	1.84	1.84
120	2.42	2.41	2.40	2.45	2.50	2.48	2.47	2.53	2.59	2.60	2.61	2.67	2.73	2.77	2.79	2.82	2.84	2.86	2.87
125	3.68	3.66	3.66	3.69	3.74	3.74	3.75	3.81	3.87	3.90	3.94	4.01	4.07	4.11	4.13	4.18	4.22	4.22	4.23
130	5.35	5.30	5.28	5.32	5.38	5.36	5.36	5.45	5.55	5.59	5.62	5.69	5.76	5.80	5.83	5.87	5.90	5.91	5.92
135	7.22	7.17	7.15	7.17	7.20	7.20	7.22	7.30	7.39	7.46	7.52	7.62	7.71	7.73	7.74	7.78	7.82	7.83	7.87
140	14.9	14.9	14.9	15.3	15.8	15.9	16.0	16.6	17.2	17.4	17.7	18.4	19.1	19.4	19.7	20.5	21.4	21.8	22.2
145	59.3	59.0	59.1	61.0	63.1	63.5	64.3	67.4	70.6	71.6	72.6	75.6	78.6	79.6	80.8	84.6	88.2	88.9	89.4
150	183	183	184	186	189	190	191	194	198	199	200	204	207	208	209	213	217	217	218
155	281	281	282	284	287	287	287	289	291	292	293	294	296	297	299	301	303	303	302
160	413	407	404	415	425	422	418	428	439	437	434	444	454	453	450	456	462	463	464
165	636	635	635	642	650	650	651	658	666	668	670	678	685	688	690	696	702	702	703
170	875	874	875	880	885	887	889	895	901	902	904	908	913	915	916	923	928	929	929
175	1062	1060	1060	1064	1069	1070	1071	1075	1079	1081	1082	1086	1090	1092	1093	1096	1099	1099	1098
180	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:LQL
Test Date:18 November 2019

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.258m [K=0.9748]
Remarks: AC 2x8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.41V I:0.0649A P:14.860W PF:0.9936 Freq:49.99Hz Lamp Flux:487.582x2 lm																	
NAME: Nova Square AC double 2x8W 36° Miny									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.:									SUR.:						Shielding Angle:		

Table--4
UNIT: cd

C(°) g (°)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1140	1140	1140	1139	1139	1139	1138	1137	1137	1137	1138	1139	1138	1138	1143				
5	1076	1077	1080	1083	1083	1082	1086	1089	1090	1091	1093	1096	1096	1098	1102				
10	897	897	902	906	909	911	914	918	920	923	929	935	935	935	941				
15	664	665	672	678	680	682	689	696	698	700	705	710	710	711	716				
20	438	434	443	452	449	446	451	457	459	461	467	474	474	475	478				
25	290	289	292	296	296	296	298	301	301	302	304	305	305	306	308				
30	187	189	196	204	207	209	213	216	216	217	219	222	222	222	225				
35	70.3	72.8	75.8	78.5	79.5	80.7	84.0	87.1	87.2	87.4	90.6	93.9	93.9	93.6	95.4				
40	20.0	20.4	20.9	21.2	21.1	21.1	21.9	22.6	22.6	22.6	23.4	24.2	24.1	23.9	24.4				
45	9.18	9.19	9.01	8.79	8.73	8.73	8.77	8.81	8.79	8.77	8.82	8.86	8.80	8.74	8.78				
50	6.23	6.25	6.26	6.26	6.25	6.27	6.38	6.49	6.51	6.51	6.57	6.62	6.58	6.53	6.55				
55	4.21	4.23	4.26	4.28	4.26	4.26	4.32	4.39	4.40	4.42	4.48	4.54	4.55	4.54	4.57				
60	2.73	2.76	2.79	2.80	2.81	2.81	2.81	2.81	2.82	2.84	2.88	2.90	2.91	2.91	2.93				
65	1.67	1.69	1.72	1.74	1.75	1.76	1.76	1.77	1.78	1.79	1.81	1.82	1.82	1.83	1.84				
70	0.98	0.99	1.02	1.05	1.06	1.06	1.08	1.09	1.08	1.07	1.09	1.11	1.10	1.10	1.11				
75	0.54	0.55	0.56	0.56	0.57	0.58	0.59	0.61	0.61	0.61	0.61	0.62	0.62	0.62	0.62				
80	0.29	0.31	0.31	0.30	0.32	0.34	0.32	0.31	0.33	0.35	0.34	0.32	0.33	0.34	0.35				
85	0.15	0.18	0.16	0.13	0.16	0.19	0.17	0.15	0.17	0.19	0.17	0.15	0.17	0.20	0.21				
90	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07				
95	0.19	0.17	0.19	0.21	0.19	0.17	0.20	0.22	0.20	0.18	0.20	0.22	0.20	0.18	0.18				
100	0.35	0.34	0.35	0.36	0.34	0.33	0.35	0.36	0.35	0.33	0.35	0.36	0.36	0.35	0.35				
105	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.65	0.64	0.65	0.66	0.65				
110	1.14	1.16	1.16	1.15	1.15	1.16	1.14	1.13	1.15	1.16	1.16	1.16	1.16	1.16	1.14				
115	1.86	1.88	1.88	1.87	1.88	1.89	1.89	1.88	1.88	1.89	1.88	1.87	1.87	1.88	1.87				
120	2.88	2.89	2.91	2.94	2.95	2.95	2.94	2.93	2.95	2.97	2.96	2.95	2.96	2.98	2.97				
125	4.26	4.29	4.29	4.30	4.35	4.40	4.42	4.44	4.50	4.55	4.55	4.55	4.61	4.66	4.66				
130	5.96	6.00	6.03	6.08	6.21	6.34	6.43	6.49	6.51	6.52	6.50	6.50	6.56	6.62	6.63				
135	8.06	8.27	8.42	8.54	8.69	8.80	8.82	8.82	8.83	8.83	8.78	8.74	8.80	8.88	8.90				
140	23.1	23.8	24.0	24.1	24.6	25.1	25.0	24.9	25.3	25.7	25.5	25.3	25.6	25.9	25.7				
145	92.8	96.0	96.3	96.1	98.0	99.6	98.6	97.7	99.7	102	101	99.8	101	102	101				
150	222	225	226	227	229	230	229	228	231	233	232	230	231	232	231				
155	304	306	306	306	308	310	310	310	311	313	313	313	314	314	313				
160	470	477	478	479	483	486	485	485	489	492	489	487	488	490	488				
165	711	718	718	718	722	727	727	728	730	731	729	728	730	732	730				
170	934	939	938	937	942	948	948	947	950	953	951	948	951	954	953				
175	1101	1104	1104	1104	1106	1109	1110	1110	1110	1109	1110	1112	1114	1115	1113				
180	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151	1151				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:LQL
Test Date:18 November 2019

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.403
Humidity:65.0%
Test Distance:10.258m [K=0.9748]
Remarks: AC 2x8W