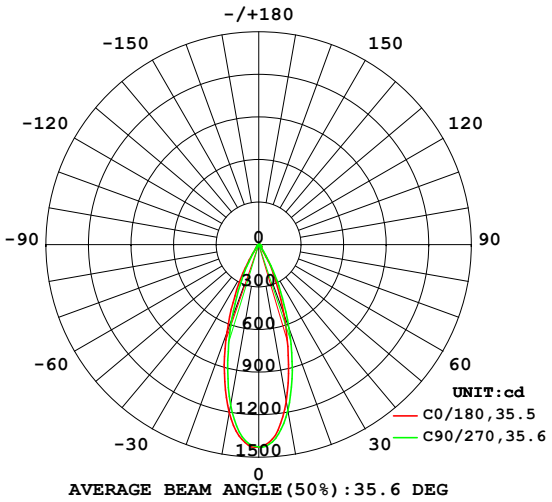
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.0714A P:8.0847W PF:0.9426 Freq:59.98Hz Lamp Flux:610.147x1 lm		
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	SUR.:	Shielding Angle:

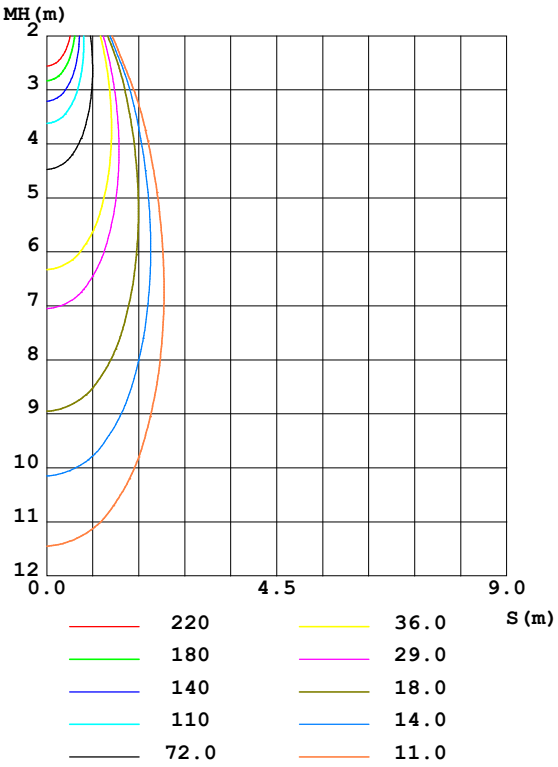
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 75.47 lm/W	
MODEL	LED-2-S8W2	Imax(cd)	1431	S/MH(C0/180)	0.62
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.57
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	610.15	η UP,DN(C0-180)	0.0,51.0
NOMINAL FLUX(lm)	610.147	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):35.6 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-03-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks: PORTER

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1122	1150	1188	1213	1202	1176	1145	1123	0- 10	123.8	123.8	20.3,20.3
20	517.6	563.2	625.3	678.3	657.2	621.4	556.2	530.0	10- 20	240.7	364.6	59.8,59.8
30	135.4	154.7	174.1	204.8	192.4	170.5	138.5	133.0	20- 30	160.5	525.0	86.1,86.1
40	26.39	29.04	30.32	30.87	29.35	29.49	27.79	26.62	30- 40	41.75	566.8	92.9,92.9
50	17.65	17.84	17.76	17.51	17.63	17.31	17.31	17.42	40- 50	16.74	583.5	95.6,95.6
60	11.06	11.18	11.17	11.12	11.23	11.14	11.01	10.92	50- 60	12.55	596.1	97.7,97.7
70	6.687	6.715	6.589	6.781	6.766	6.680	6.119	6.400	60- 70	8.787	604.9	99.1,99.1
80	2.819	2.151	1.804	2.298	2.956	2.054	1.598	1.908	70- 80	4.578	609.5	99.9,99.9
90	0.0225	0.0140	0.0204	0.0168	0.0172	0.0166	0.0204	0.0178	80- 90	0.6899	610.1	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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Test Speed: HIGH
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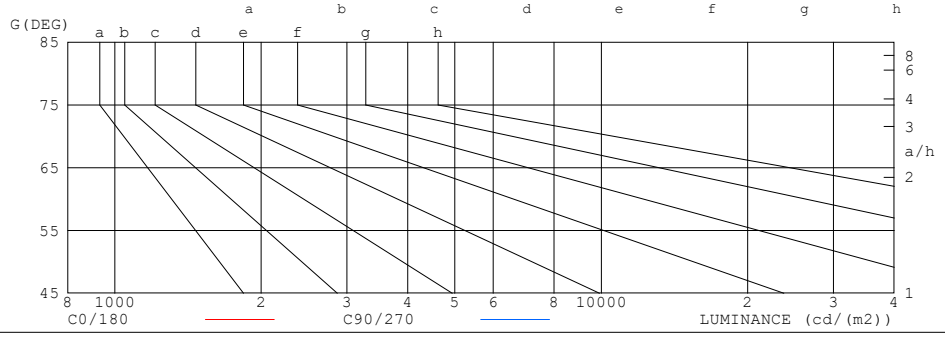
LUMINANCE LIMITATION CURVES

Test:U:120.08V I:0.0714A P:8.0847W PF:0.9426 Freq:59.98Hz Lamp Flux:610.147x1 lm		
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	75	5
80	148	93
75	164	141
70	178	173
65	191	191
60	201	201
55	218	220
50	250	248
45	271	270

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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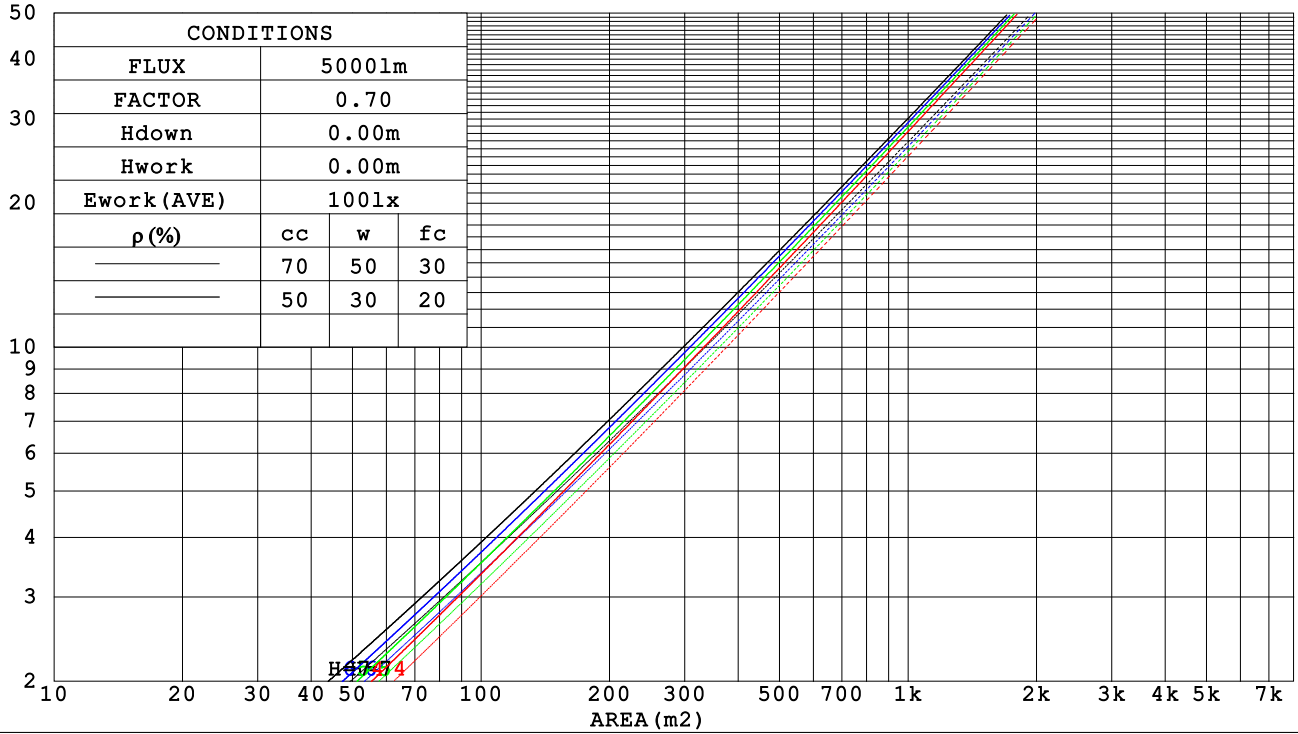
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.00	.97	.00	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.88	.92	.90	.87	.90	.88	.86	.84
4.0	.93	.89	.85	.92	.88	.84	.90	.86	.83	.88	.85	.82	.86	.84	.81	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.77	.76
6.0	.85	.79	.76	.84	.79	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
7.0	.81	.76	.72	.80	.75	.72	.79	.75	.71	.78	.74	.71	.77	.73	.71	.69
8.0	.77	.72	.69	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.68	.66
9.0	.74	.69	.66	.74	.69	.66	.73	.68	.65	.72	.68	.65	.71	.68	.65	.64
10.0	.71	.66	.63	.71	.66	.63	.70	.66	.63	.69	.65	.63	.69	.65	.62	.61

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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WEC AND CCEC

Test:U:120.08V I:0.0714A P:8.0847W PF:0.9426 Freq:59.98Hz Lamp Flux:610.147x1 lm		
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.166	.094	.030	.159	.091	.029	.146	.084	.027	.135	.078	.025	.124	.072	.023	
2.0	.156	.085	.026	.150	.083	.026	.140	.078	.024	.130	.073	.023	.121	.069	.022	
3.0	.146	.078	.023	.142	.076	.023	.133	.072	.022	.125	.068	.021	.117	.065	.020	
4.0	.138	.072	.021	.134	.070	.021	.126	.067	.020	.119	.064	.019	.113	.061	.019	
5.0	.130	.066	.019	.127	.065	.019	.120	.063	.018	.114	.060	.018	.108	.058	.017	
6.0	.123	.062	.018	.120	.061	.017	.115	.059	.017	.109	.057	.017	.104	.055	.016	
7.0	.117	.058	.016	.114	.057	.016	.109	.055	.016	.105	.054	.016	.100	.052	.015	
8.0	.112	.055	.015	.109	.054	.015	.105	.052	.015	.101	.051	.015	.097	.050	.014	
9.0	.107	.052	.014	.105	.051	.014	.101	.050	.014	.097	.049	.014	.093	.047	.014	
10.0	.102	.049	.014	.100	.048	.014	.097	.047	.013	.093	.046	.013	.090	.045	.013	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.090	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.092	.121	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.099	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.085	.054	.033	.059	.038	.024	.034	.023	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.056	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-03-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks: PORTER

UGR(Unified Glare Rating) Table

Test:U:120.08V I:0.0714A P:8.0847W PF:0.9426 Freq:59.98Hz Lamp Flux:610.147x1 lm		
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	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	3.2	4.0	3.4	4.2	4.4	3.7	4.5	3.9	4.7	4.8
3H	4.3	5.0	4.5	5.2	5.4	4.6	5.3	4.8	5.5	5.7
4H	4.7	5.4	5.0	5.7	5.9	4.9	5.6	5.1	5.8	6.0
6H	5.1	5.8	5.4	6.0	6.2	5.0	5.7	5.3	5.9	6.2
8H	5.1	5.8	5.4	6.0	6.3	5.0	5.7	5.3	5.9	6.2
12H	5.1	5.7	5.4	6.0	6.2	5.0	5.6	5.3	5.9	6.1
4H 2H	3.6	4.4	3.9	4.6	4.8	4.0	4.7	4.3	5.0	5.2
3H	4.9	5.5	5.2	5.8	6.1	5.1	5.7	5.4	6.0	6.3
4H	5.5	6.0	5.8	6.3	6.6	5.5	6.1	5.8	6.4	6.7
6H	5.9	6.4	6.3	6.8	7.1	5.7	6.2	6.1	6.5	6.9
8H	6.0	6.4	6.4	6.8	7.2	5.7	6.2	6.1	6.5	6.9
12H	6.0	6.4	6.4	6.8	7.2	5.6	6.1	6.1	6.5	6.8
8H 4H	5.6	6.1	6.0	6.4	6.8	5.6	6.1	6.0	6.5	6.8
6H	6.2	6.6	6.6	7.0	7.4	5.9	6.3	6.3	6.7	7.1
8H	6.3	6.6	6.7	7.0	7.5	5.9	6.3	6.4	6.7	7.1
12H	6.3	6.6	6.8	7.0	7.5	5.9	6.2	6.3	6.6	7.1
12H 4H	5.6	6.0	6.0	6.4	6.8	5.6	6.1	6.0	6.4	6.8
6H	6.2	6.5	6.6	6.9	7.4	5.9	6.2	6.3	6.7	7.1
8H	6.3	6.6	6.7	7.0	7.5	5.9	6.2	6.4	6.6	7.1

Variations with the observer position at spacings:		
S = 1.0H	+ 0.3 / - 0.4	+ 0.5 / - 0.5
1.5H	+ 0.2 / - 0.2	+ 0.8 / - 0.3
2.0H	+ 0.4 / - 0.4	+ 0.5 / - 0.5

CIE Pub.117, 610.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)
Area: 0.111111 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-03-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks: PORTER

UTILIZATION FACTORS TABLE

Test:U:120.08V I:0.0714A P:8.0847W PF:0.9426 Freq:59.98Hz Lamp Flux:610.147x1 lm		
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	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) x RCR = 5									
k = 0.60	87	81	77	87	81	77	86	80	77	73
0.80	94	89	85	94	88	85	93	88	84	81
1.00	99	93	89	98	93	89	96	93	89	85
1.25	103	97	94	102	97	94	100	96	93	89
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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Humidity:65.0%
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Remarks: PORTER

ISOCANDELA DIAGRAM

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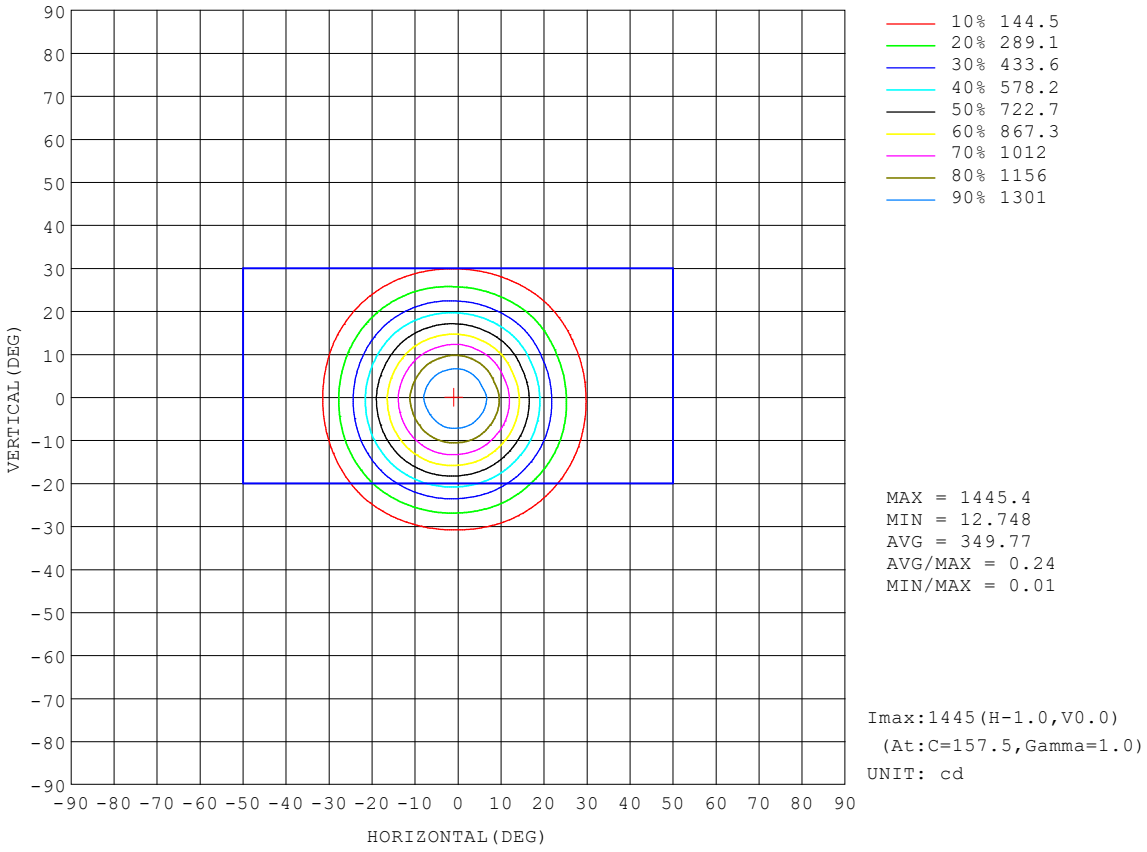
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	SUR.:	Shielding Angle:



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AAI Figure

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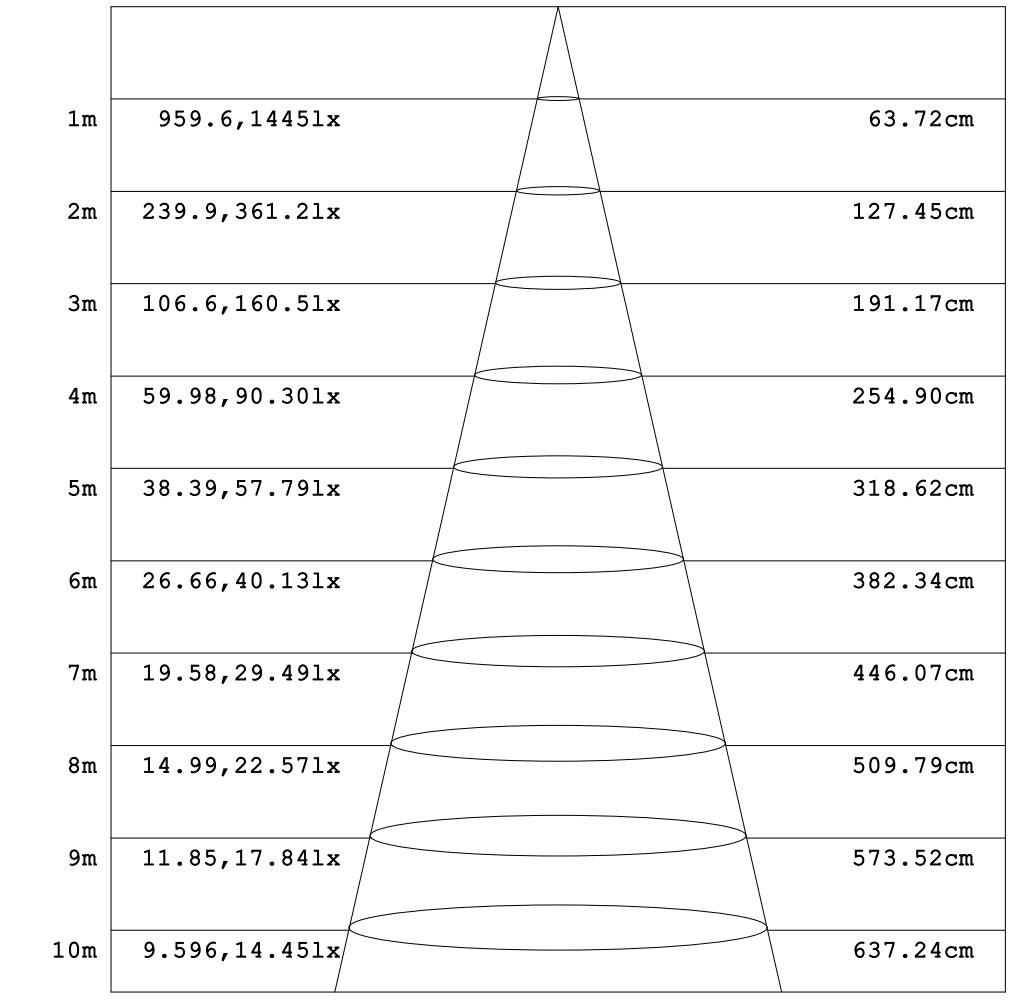
Flux out:318.3 lm



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

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ISOLUX DIAGRAM

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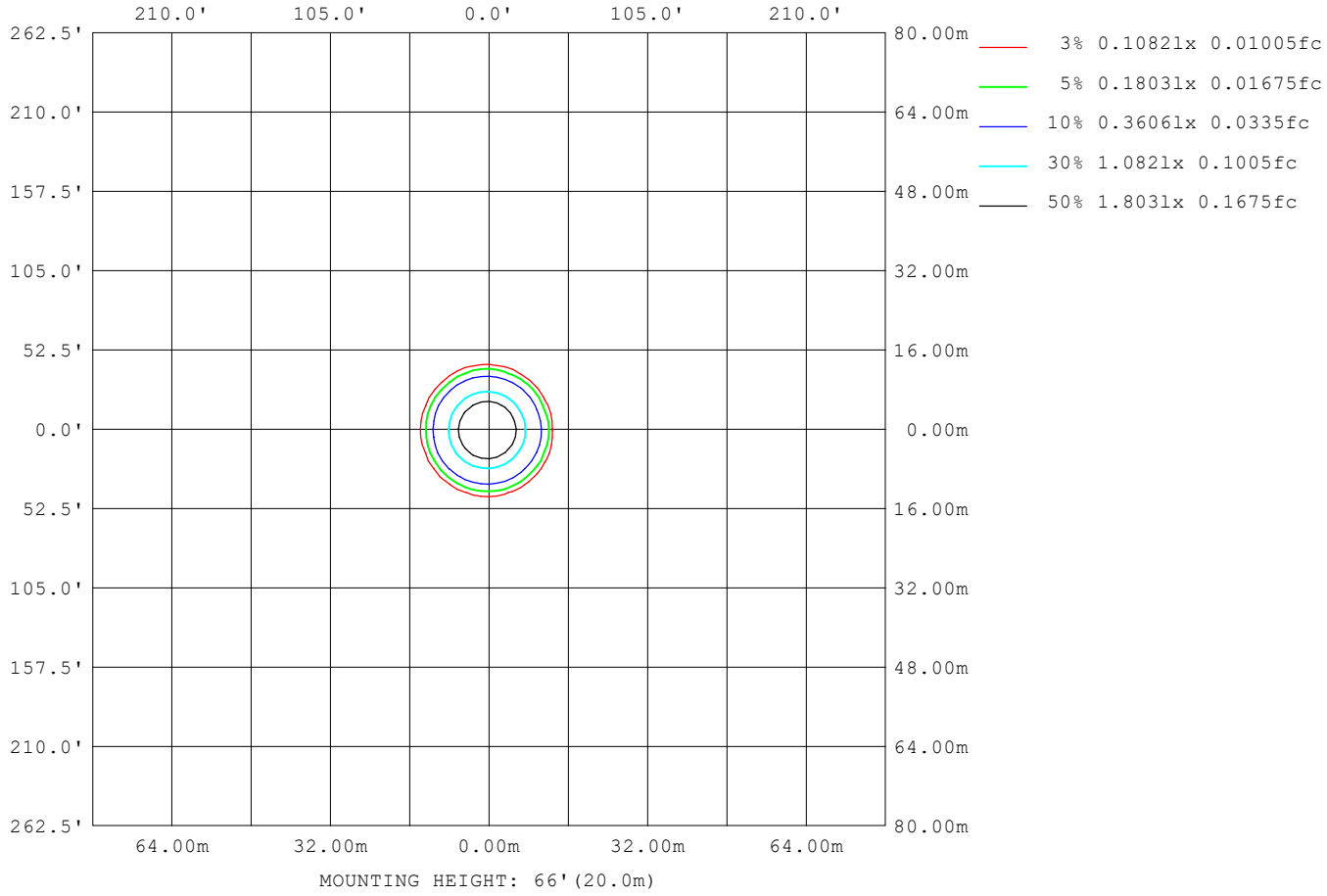

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks: PORTER

LED Avg.L Report

Test:U:120.08V I:0.0714A P:8.0847W PF:0.9426 Freq:59.98Hz Lamp Flux:610.147x1 lm		
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	SUR.:	Shielding Angle:

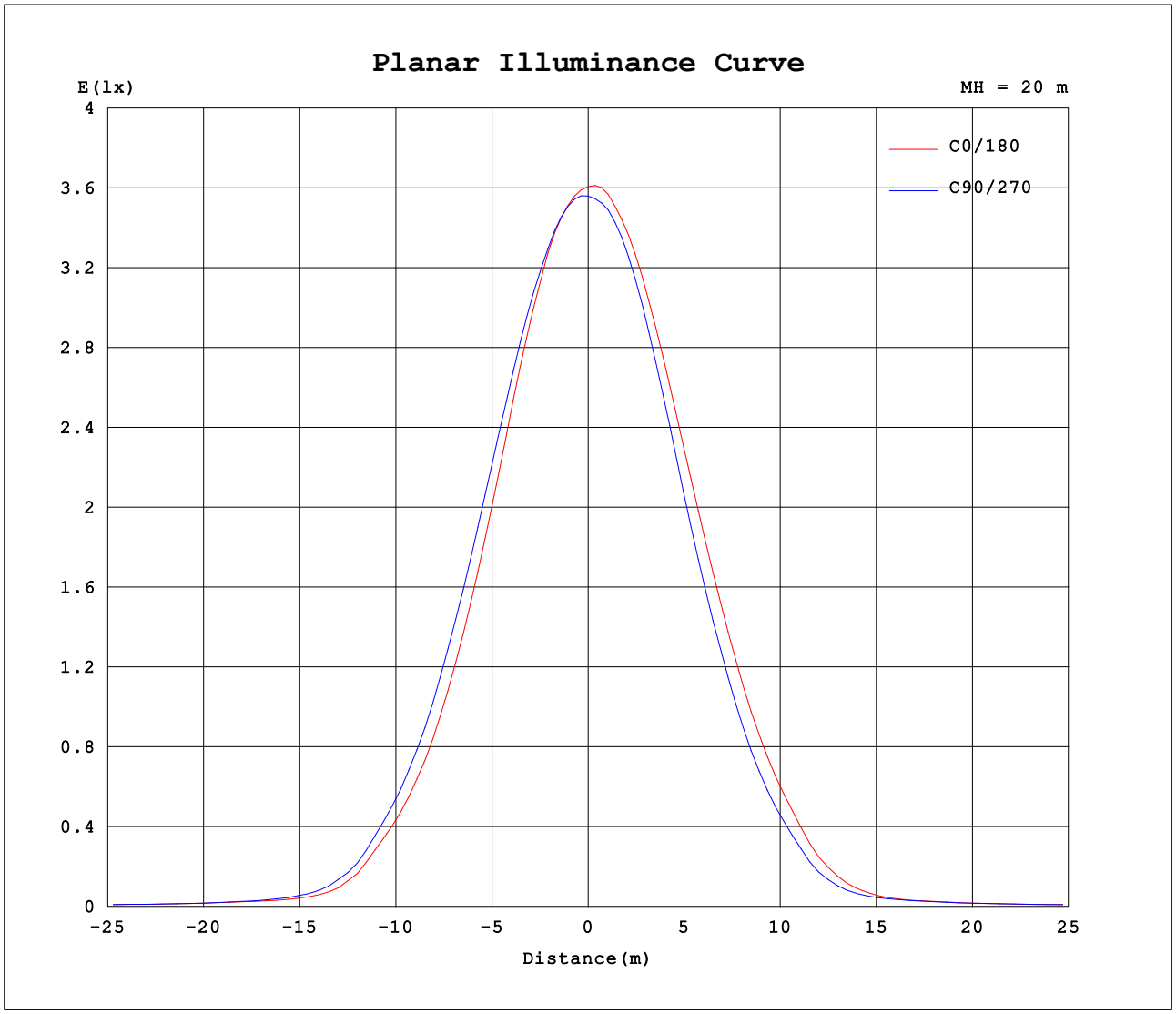
AvgL	cd/m2
L_0~180(65)av	191
L_0~180(75)av	162
L_0~180(85)av	73
L_90~270(65)av	189
L_90~270(75)av	135
L_90~270(85)av	5
L_45(65)av	190
L_45(75)av	150
L_45(85)av	13

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-03-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks: PORTER

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-03-24

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks: PORTER

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.0714A P:8.0847W PF:0.9426 Freq:59.98Hz Lamp Flux:610.147x1 lm		
NAME: LED-2-S8W2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LOUTS	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427	1427			
5	1350	1356	1360	1368	1372	1380	1384	1386	1378	1375	1369	1362	1360	1353	1351	1349			
10	1122	1136	1150	1173	1188	1205	1213	1218	1202	1184	1176	1155	1145	1130	1123	1114			
15	810	830	855	890	918	947	960	961	941	917	897	869	847	826	817	803			
20	518	541	563	597	625	657	678	679	657	635	621	587	556	536	530	514			
25	293	313	325	351	368	390	413	417	400	386	370	344	314	300	299	287			
30	135	148	155	169	174	188	205	204	192	185	171	155	139	130	133	129			
35	43.3	47.5	51.9	56.8	60.0	64.8	67.8	67.9	66.1	63.5	57.9	52.5	48.5	46.3	45.0	41.8			
40	26.4	27.4	29.0	30.3	30.3	30.8	30.9	29.8	29.3	29.1	29.5	28.7	27.8	27.1	26.6	25.7			
45	21.0	21.3	21.2	21.5	21.3	21.0	20.7	20.8	20.9	20.8	20.8	20.7	20.7	20.6	20.8	20.7			
50	17.6	17.8	17.8	18.0	17.8	17.7	17.5	17.5	17.6	17.4	17.3	17.2	17.3	17.2	17.4	17.4			
55	13.7	14.0	14.0	14.1	14.1	14.1	14.1	14.1	14.0	13.8	13.8	13.6	13.5	13.5	13.5	13.5			
60	11.1	11.2	11.2	11.3	11.2	11.2	11.1	11.2	11.2	11.1	11.1	11.0	11.0	10.9	10.9	10.9			
65	8.87	8.92	8.93	9.00	8.99	9.01	8.99	9.02	9.03	8.96	8.96	8.88	8.77	8.66	8.78	8.75			
70	6.69	6.73	6.72	6.55	6.59	6.81	6.78	6.78	6.77	6.68	6.68	6.35	6.12	6.08	6.40	6.57			
75	4.67	4.69	4.35	4.13	4.07	4.31	4.53	4.70	4.67	4.60	4.30	3.90	3.68	3.69	4.09	4.50			
80	2.82	2.76	2.15	1.88	1.80	1.94	2.30	2.84	2.96	2.67	2.05	1.74	1.60	1.65	1.91	2.57			
85	0.72	0.82	0.18	0.03	0.05	0.05	0.22	0.82	0.69	0.63	0.06	0.04	0.04	0.03	0.04	0.63			
90	0.02	0.03	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			

C Range: 0 - 360DEG
C Interval: 22.5DEG
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γ Range: 0 - 90DEG
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