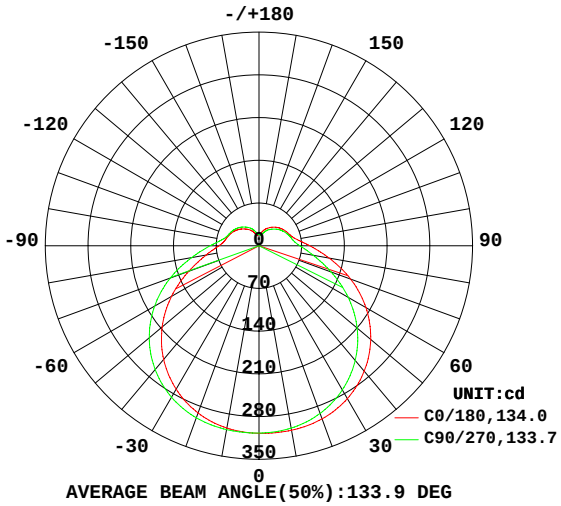
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0

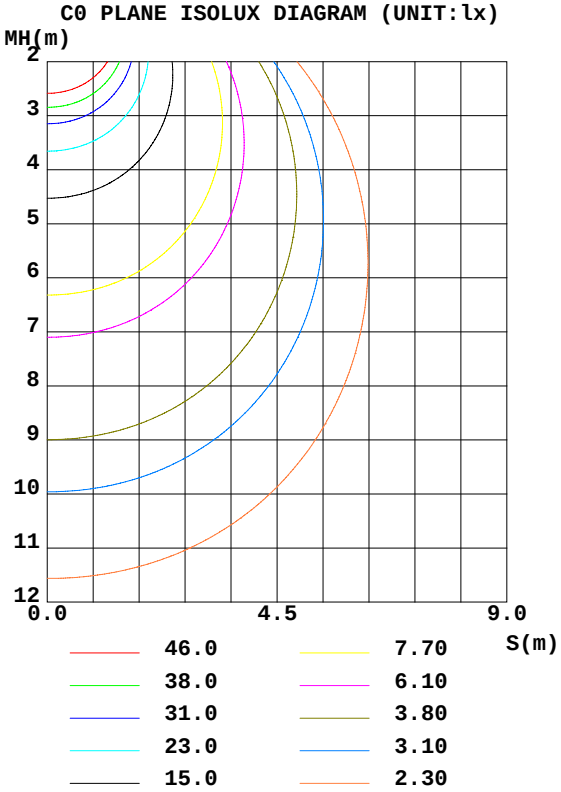
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 85.54 lm/W	
MODEL	FLUSH STRN15R1500UD9SC3M	Imax(cd)	307.5	S/MH(C0/180)	1.31
NOMINAL POWER(W)	21	LOR(%)	97.4	S/MH(C90/270)	1.40
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1461.7	η UP,DN(C0-180)	9.8,38.4
NOMINAL FLUX(lm)	1500	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	10.0,39.3
LAMPS INSIDE	1	η up(%)	19.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	77.7	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):133.9 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WEN
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

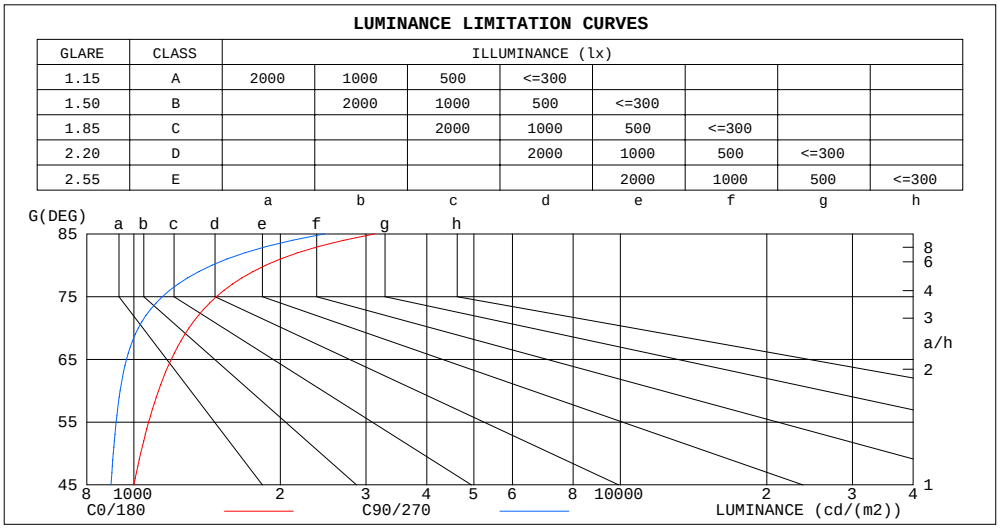
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	306.9	305.1	303.4	303.8	303.4	304.5	305.9	306.5	0- 10	29.22	29.22	2,1.95
20	302.0	297.1	292.5	292.5	291.7	295.7	300.1	301.6	10- 20	85.34	114.6	7.84,7.64
30	289.4	281.0	273.0	272.6	271.4	278.7	286.6	288.9	20- 30	133.6	248.2	17,16.5
40	268.3	256.5	245.2	244.1	243.1	253.4	264.7	267.6	30- 40	168.4	416.6	28.5,27.8
50	239.0	224.2	209.9	208.1	207.1	220.3	234.7	238.0	40- 50	185.3	601.9	41.2,40.1
60	202.3	185.2	168.7	166.1	165.3	180.6	197.4	200.9	50- 60	182.2	784.1	53.6,52.3
70	159.8	142.1	125.8	122.6	122.4	137.3	154.5	158.1	60- 70	160.4	944.4	64.6,63
80	116.7	102.6	90.46	87.94	88.03	98.41	112.1	115.0	70- 80	126.7	1071	73.3,71.4
90	83.26	74.42	67.05	65.34	65.65	71.55	80.12	81.95	80- 90	94.11	1165	79.7,77.7
100	62.40	58.45	56.24	55.64	56.19	57.13	60.70	61.77	90-100	70.86	1236	84.6,82.4
110	53.60	52.55	51.65	51.20	52.12	52.47	53.35	53.77	100-110	58.31	1294	88.6,86.3
120	49.50	48.07	46.93	46.53	47.47	48.59	49.83	50.28	110-120	50.22	1345	92,89.6
130	45.02	43.24	41.65	41.20	42.03	43.83	45.46	45.86	120-130	41.35	1386	94.8,92.4
140	39.89	37.96	35.87	35.47	35.98	38.30	40.19	40.52	130-140	31.68	1418	97,94.5
150	34.31	32.36	30.18	29.63	30.20	32.62	34.56	34.60	140-150	22.16	1440	98.5,96
160	28.50	26.07	23.34	22.57	22.88	25.62	28.30	28.55	150-160	13.59	1453	99.4,96.9
170	21.75	19.66	17.45	16.50	16.89	18.97	20.97	21.37	160-170	6.426	1460	99.9,97.3
180	19.66	19.42	19.26	19.16	19.67	19.42	19.28	19.16	170-180	1.806	1462	100,97.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WEN
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3130	2465
80	1867	1447
75	1479	1145
70	1298	1021
65	1194	966
60	1124	937
55	1072	919
50	1033	907
45	1000	897

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
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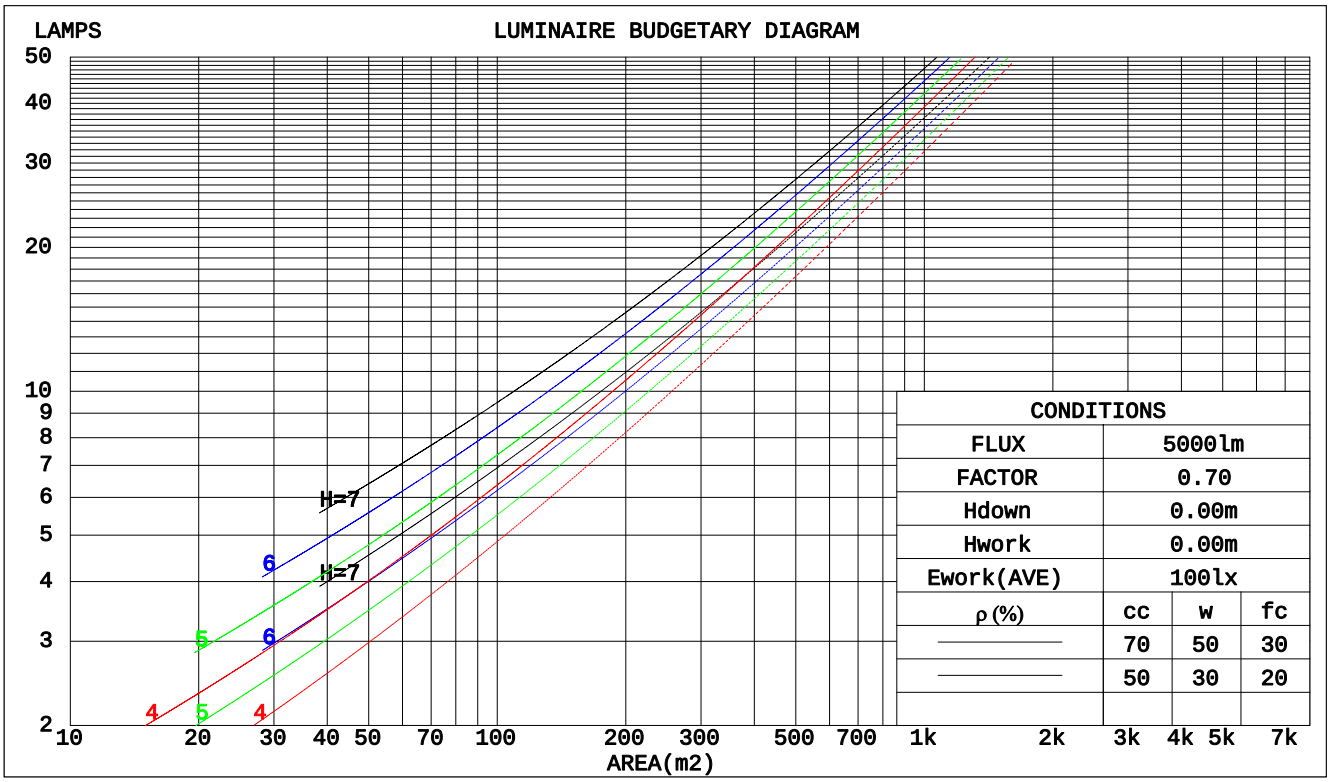
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0

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	1.11	1.11	1.11	1.06	1.06	1.06	.97	.97	.97	.89	.89	.89	.81	.81	.81	.78
1.0	.93	.88	.84	.89	.85	.81	.81	.78	.74	.74	.71	.69	.68	.65	.63	.60
2.0	.80	.73	.66	.76	.70	.64	.70	.64	.60	.64	.59	.55	.58	.54	.51	.48
3.0	.70	.61	.54	.66	.59	.52	.61	.54	.49	.55	.50	.46	.50	.46	.42	.39
4.0	.61	.52	.45	.58	.50	.44	.53	.46	.41	.49	.43	.38	.44	.40	.36	.33
5.0	.54	.45	.38	.52	.43	.37	.48	.40	.35	.44	.37	.33	.40	.35	.31	.28
6.0	.48	.39	.33	.46	.38	.32	.43	.36	.30	.39	.33	.28	.36	.31	.27	.24
7.0	.44	.35	.29	.42	.34	.28	.39	.32	.26	.36	.29	.25	.33	.27	.23	.21
8.0	.40	.31	.25	.38	.30	.25	.35	.28	.23	.32	.27	.22	.30	.25	.21	.19
9.0	.36	.28	.23	.35	.27	.22	.32	.26	.21	.30	.24	.20	.28	.22	.19	.17
10.0	.33	.26	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.26	.21	.17	.15



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WEN
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0

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	.361	.205	.065	.348	.199	.063	.324	.186	.059	.301	.174	.056	.281	.163	.052	
2.0	.316	.173	.053	.304	.168	.052	.282	.157	.049	.262	.147	.046	.243	.137	.043	
3.0	.282	.150	.045	.272	.146	.044	.252	.136	.041	.233	.128	.039	.216	.120	.037	
4.0	.255	.133	.039	.246	.129	.038	.228	.121	.036	.211	.113	.034	.195	.106	.032	
5.0	.233	.119	.034	.224	.115	.033	.207	.108	.032	.192	.101	.030	.178	.095	.029	
6.0	.214	.107	.031	.206	.104	.030	.191	.098	.028	.177	.092	.027	.163	.086	.026	
7.0	.197	.098	.028	.190	.095	.027	.176	.089	.026	.163	.084	.024	.151	.079	.023	
8.0	.183	.090	.025	.177	.087	.025	.164	.082	.023	.152	.077	.022	.141	.072	.021	
9.0	.171	.083	.023	.165	.080	.023	.153	.076	.021	.142	.071	.020	.132	.067	.019	
10.0	.160	.077	.021	.154	.075	.021	.144	.070	.020	.133	.066	.019	.124	.062	.018	

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	.336	.336	.336	.287	.287	.287	.196	.196	.196	.113	.113	.113	.036	.036	.036	
1.0	.332	.303	.278	.284	.260	.239	.194	.179	.166	.112	.104	.096	.036	.033	.031	
2.0	.325	.281	.244	.278	.242	.211	.191	.167	.147	.110	.097	.086	.035	.032	.028	
3.0	.318	.265	.223	.272	.229	.194	.187	.159	.136	.108	.093	.080	.035	.030	.026	
4.0	.310	.253	.209	.266	.219	.182	.183	.152	.128	.106	.089	.076	.034	.029	.025	
5.0	.303	.243	.200	.260	.211	.174	.179	.147	.123	.104	.086	.073	.033	.028	.024	
6.0	.296	.236	.193	.254	.204	.168	.175	.143	.119	.102	.084	.071	.033	.027	.023	
7.0	.289	.229	.188	.249	.199	.163	.172	.139	.116	.100	.082	.069	.032	.027	.023	
8.0	.283	.224	.184	.243	.194	.160	.168	.136	.114	.098	.080	.068	.032	.026	.022	
9.0	.277	.219	.181	.238	.190	.158	.165	.134	.112	.096	.079	.067	.031	.026	.022	
10.0	.271	.215	.178	.234	.187	.156	.162	.132	.111	.095	.078	.066	.031	.026	.022	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WEN
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0

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	10.7	12.0	11.2	12.5	13.1	9.9	11.3	10.5	11.8	12.4
3H	12.9	14.1	13.5	14.7	15.4	11.9	13.1	12.5	13.7	14.4
4H	14.1	15.2	14.7	15.8	16.5	12.9	14.1	13.5	14.7	15.4
6H	15.3	16.4	15.9	17.0	17.7	14.0	15.1	14.6	15.7	16.4
8H	16.0	17.0	16.6	17.6	18.3	14.6	15.7	15.2	16.3	17.0
12H	16.7	17.7	17.4	18.4	19.1	15.3	16.4	16.0	17.0	17.7
4H 2H	11.3	12.5	11.9	13.0	13.7	10.8	11.9	11.3	12.5	13.2
3H	13.7	14.8	14.4	15.4	16.1	12.9	13.9	13.6	14.6	15.3
4H	15.1	16.0	15.7	16.6	17.4	14.1	15.0	14.8	15.7	16.4
6H	16.5	17.3	17.2	18.0	18.8	15.4	16.2	16.0	16.9	17.7
8H	17.3	18.0	17.9	18.7	19.5	16.1	16.8	16.8	17.5	18.3
12H	18.1	18.9	18.8	19.6	20.4	16.9	17.6	17.6	18.3	19.1
8H 4H	15.5	16.2	16.1	16.9	17.7	14.7	15.4	15.4	16.1	16.9
6H	17.1	17.8	17.9	18.5	19.4	16.2	16.9	16.9	17.6	18.4
8H	18.1	18.7	18.8	19.4	20.3	17.1	17.7	17.8	18.4	19.3
12H	19.2	19.7	20.0	20.5	21.4	18.1	18.6	18.9	19.4	20.3
12H 4H	15.5	16.2	16.2	16.9	17.8	14.8	15.5	15.5	16.2	17.0
6H	17.3	17.9	18.0	18.6	19.5	16.4	17.0	17.2	17.8	18.6
8H	18.4	18.9	19.1	19.6	20.5	17.4	18.0	18.2	18.7	19.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 1500 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WEN
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0

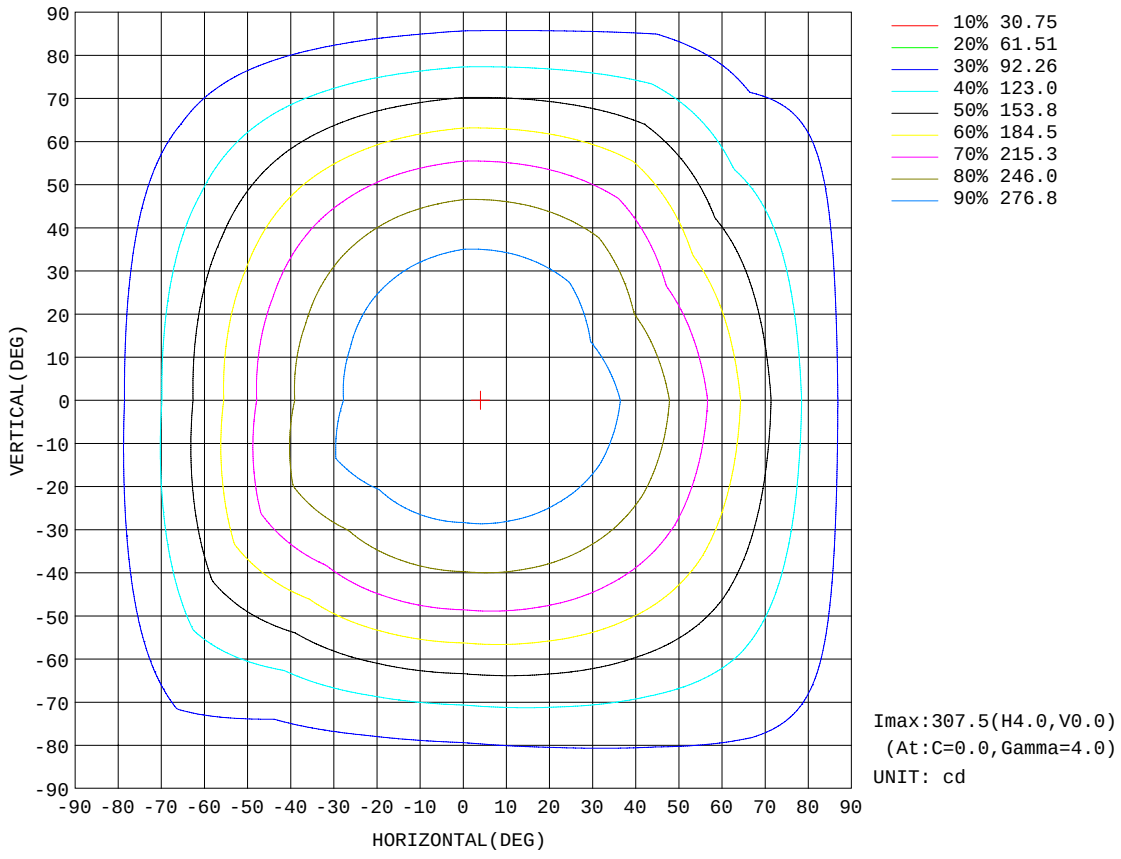
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	46	34	27	45	34	27	43	33	27	20
0.80	55	43	35	54	42	35	51	41	34	26
1.00	63	51	43	61	50	42	57	50	41	32
1.25	70	58	50	67	56	49	63	54	47	37
1.50	75	63	55	72	61	54	67	58	52	41
2.00	82	71	64	79	69	62	73	65	59	47
2.50	86	77	69	83	74	67	76	69	64	51
3.00	90	81	74	86	78	72	79	73	68	54
4.00	94	87	81	90	84	78	83	78	73	58
5.00	97	91	85	93	87	82	85	81	77	61
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WEN
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0



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C Interval: 22.5DEG
Test Speed: HIGH
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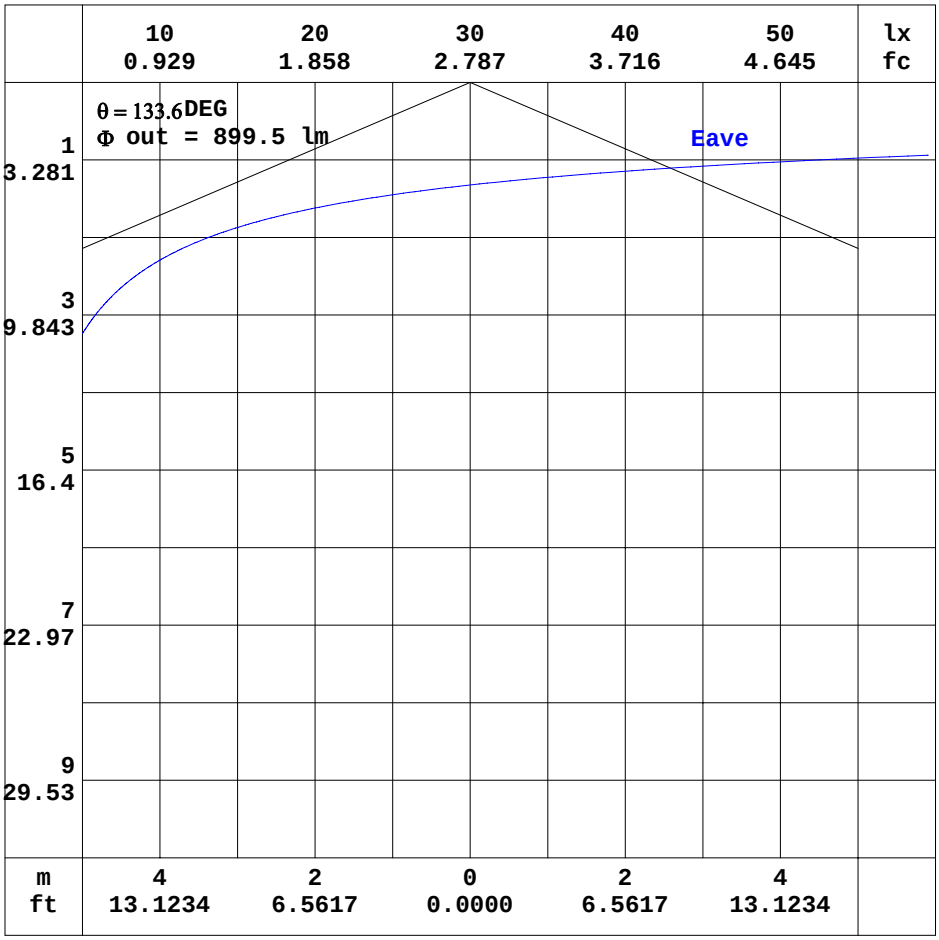
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

AAI CURVES

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0



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

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
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γ Range: 0 - 180DEG
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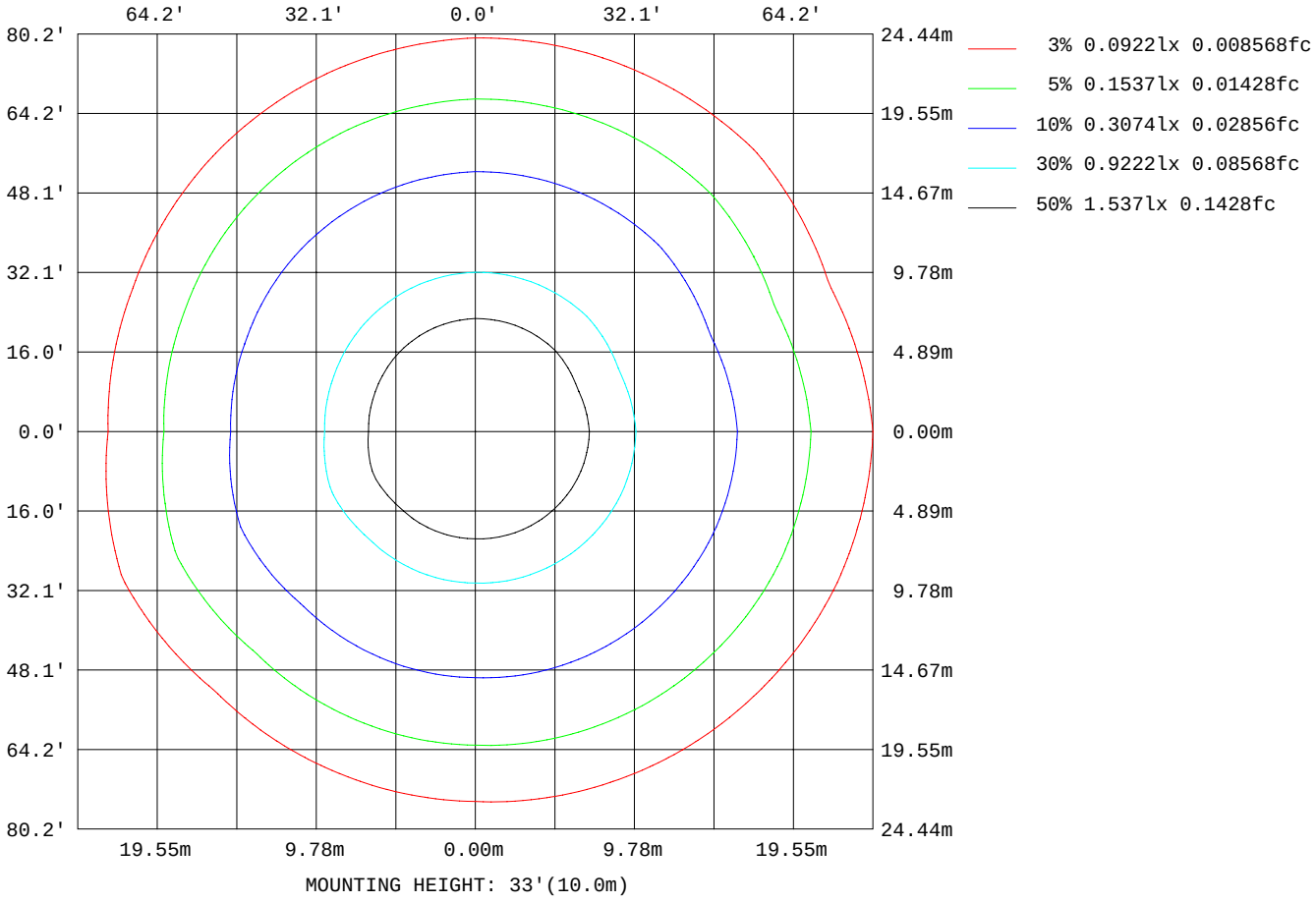
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0



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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: LED Flush mount	TYPE:	WEIGHT:1
SPEC.:SPSCL-K21DSU 5CFW259	DIM.: 15"	SERIAL No.:1
MFR.: SUPERSUN	SUR.:0.36	Shielding Angle:0

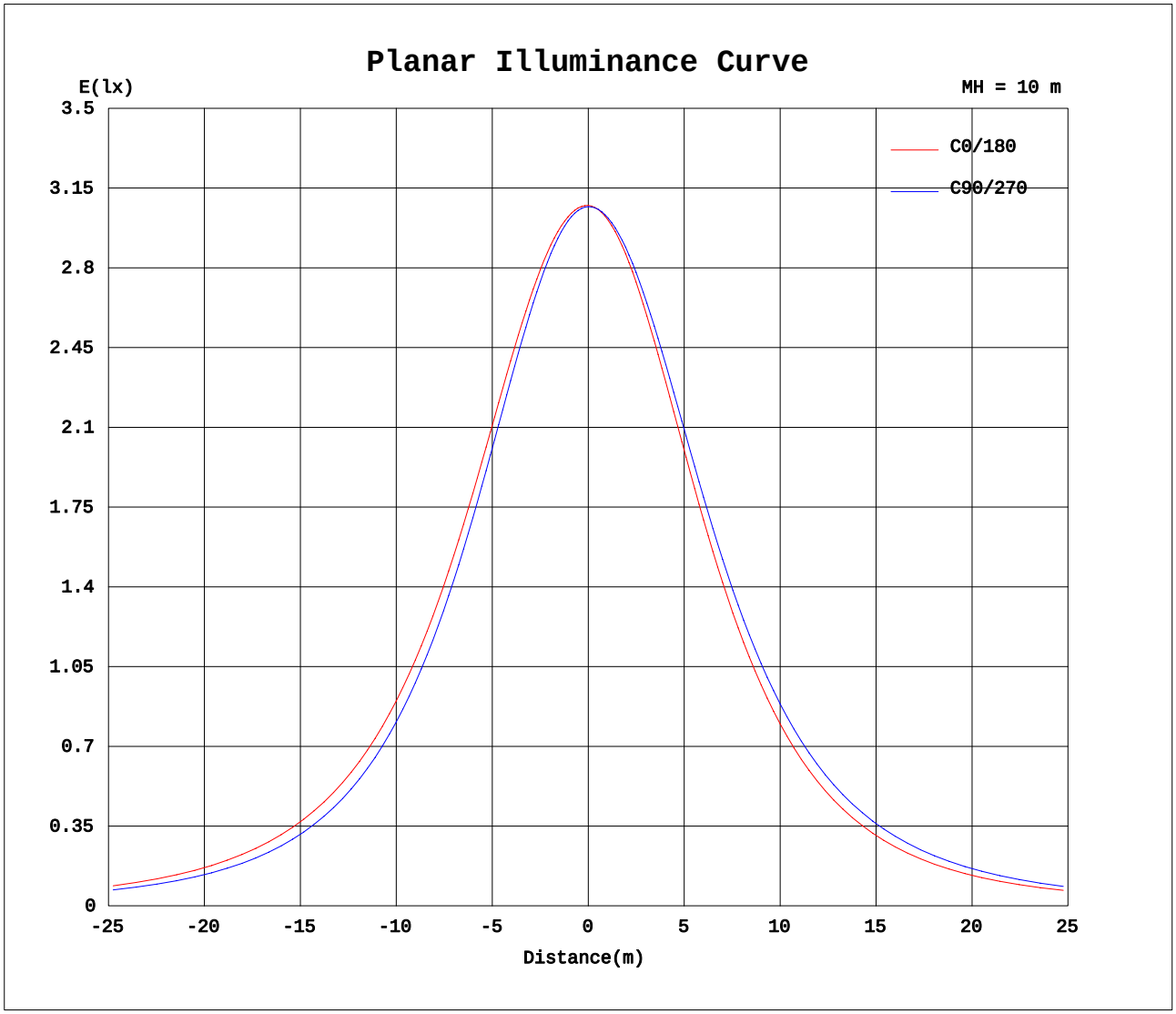
AvgL	cd/m2
L_0~180(65)av	1068
L_0~180(75)av	1296
L_0~180(85)av	2766
L_90~270(65)av	1063
L_90~270(75)av	1284
L_90~270(85)av	2735
L_45(65)av	1063
L_45(75)av	1281
L_45(85)av	2728

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:WEN
Test Date:2021-03-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.978m [K=1.0000]
Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307			
5	307	307	307	306	306	306	306	307	306	306	306	307	307	307	307	307			
10	307	306	305	304	303	304	304	306	303	304	305	305	306	306	307	305			
15	305	304	302	300	299	299	299	303	299	299	301	303	304	305	305	303			
20	302	300	297	294	292	292	292	298	292	293	296	298	300	301	302	298			
25	297	294	290	287	284	284	284	291	283	284	288	292	294	295	296	291			
30	289	286	281	276	273	273	273	282	271	274	279	283	287	288	289	282			
35	280	276	270	264	260	259	259	270	258	261	267	272	277	278	279	270			
40	268	264	256	250	245	244	244	257	243	246	253	260	265	266	268	257			
45	255	250	241	234	228	227	227	241	226	230	238	245	251	252	254	242			
50	239	233	224	216	210	208	208	224	207	211	220	228	235	237	238	224			
55	221	215	205	197	190	188	188	205	187	191	201	210	217	219	220	205			
60	202	196	185	176	169	166	166	184	165	170	181	190	197	199	201	185			
65	182	175	164	155	147	144	144	162	144	148	159	169	176	178	180	163			
70	160	153	142	133	126	123	123	140	122	127	137	147	155	156	158	141			
75	138	131	121	113	107	104	104	119	104	107	117	125	133	134	136	120			
80	117	111	103	96.2	90.5	88.2	87.9	101	88.0	90.9	98.4	106	112	113	115	101			
85	98.2	93.5	87.0	82.0	77.3	75.4	75.2	85.7	75.4	77.5	83.5	89.4	94.3	95.4	96.7	85.5			
90	83.3	79.7	74.4	70.5	67.0	65.6	65.3	73.4	65.7	67.0	71.6	76.4	80.1	80.8	82.0	73.4			
95	71.3	68.6	64.8	62.4	60.2	59.2	59.1	64.2	59.5	59.8	62.6	66.1	68.8	69.3	70.3	64.0			
100	62.4	60.6	58.4	57.4	56.2	55.6	55.6	58.5	56.2	55.8	57.1	59.1	60.7	61.0	61.8	58.0			
105	56.7	55.8	54.8	54.6	53.9	53.4	53.4	55.4	54.1	53.7	54.2	55.1	55.8	55.9	56.5	54.8			
110	53.6	53.1	52.5	52.3	51.7	51.2	51.2	53.1	52.1	51.9	52.5	53.1	53.3	53.3	53.8	52.9			
115	51.6	51.0	50.3	50.0	49.4	49.0	48.9	50.9	49.9	49.9	50.6	51.3	51.7	51.7	52.1	51.1			
120	49.5	48.9	48.1	47.7	46.9	46.6	46.5	48.5	47.5	47.7	48.6	49.4	49.8	49.9	50.3	49.0			
125	47.3	46.6	45.7	45.1	44.3	44.0	44.0	46.0	44.8	45.3	46.3	47.2	47.8	47.9	48.2	46.6			
130	45.0	44.2	43.2	42.5	41.6	41.3	41.2	43.4	42.0	42.6	43.8	44.8	45.5	45.6	45.9	44.0			
135	42.5	41.8	40.6	39.8	38.7	38.4	38.4	40.6	39.1	39.7	41.1	42.2	42.9	43.1	43.3	41.3			
140	39.9	39.1	38.0	36.9	35.9	35.5	35.5	37.7	36.0	36.7	38.3	39.4	40.2	40.3	40.5	38.5			
145	37.2	36.5	35.2	34.1	33.0	32.6	32.5	34.8	33.0	33.8	35.4	36.6	37.4	37.5	37.6	35.4			
150	34.3	33.7	32.4	31.2	30.2	29.9	29.6	31.8	30.2	31.1	32.6	33.8	34.6	34.5	34.6	32.4			
155	31.5	31.0	29.5	28.1	26.9	26.6	26.3	28.6	26.6	27.6	29.4	30.9	31.7	31.7	31.8	29.7			
160	28.5	27.7	26.1	24.6	23.3	22.9	22.6	24.9	22.9	23.9	25.6	27.1	28.3	28.5	28.6	26.2			
165	25.0	24.4	22.8	21.4	20.3	19.6	19.2	21.2	19.6	20.6	22.2	23.4	24.6	24.8	24.9	22.4			
170	21.8	21.1	19.7	18.4	17.5	16.8	16.5	18.0	16.9	17.6	19.0	20.1	21.0	21.2	21.4	19.0			
175	20.6	20.1	19.4	18.9	18.5	18.0	17.9	18.4	18.4	18.7	19.3	19.8	20.1	20.3	20.3	18.7			
180	19.7	19.4	19.4	19.4	19.3	19.1	19.2	18.8	19.7	19.4	19.4	19.4	19.3	19.1	19.2	18.9			

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