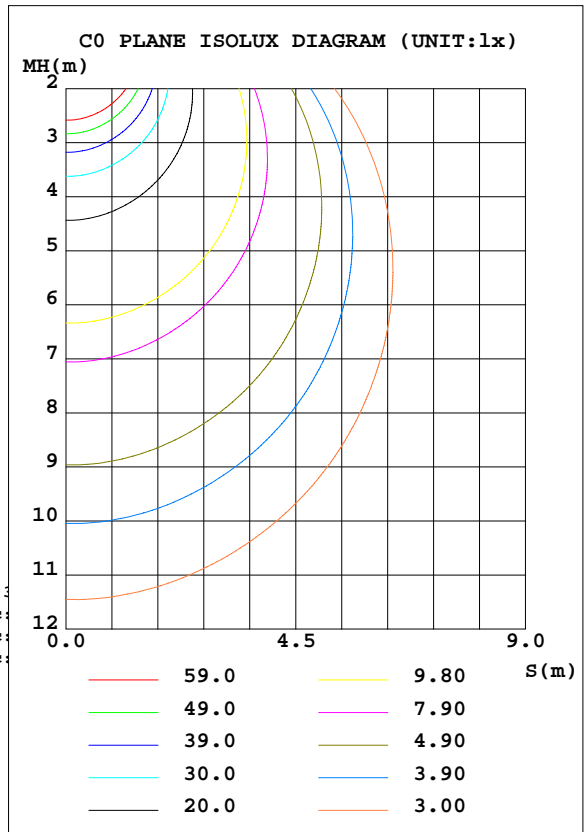
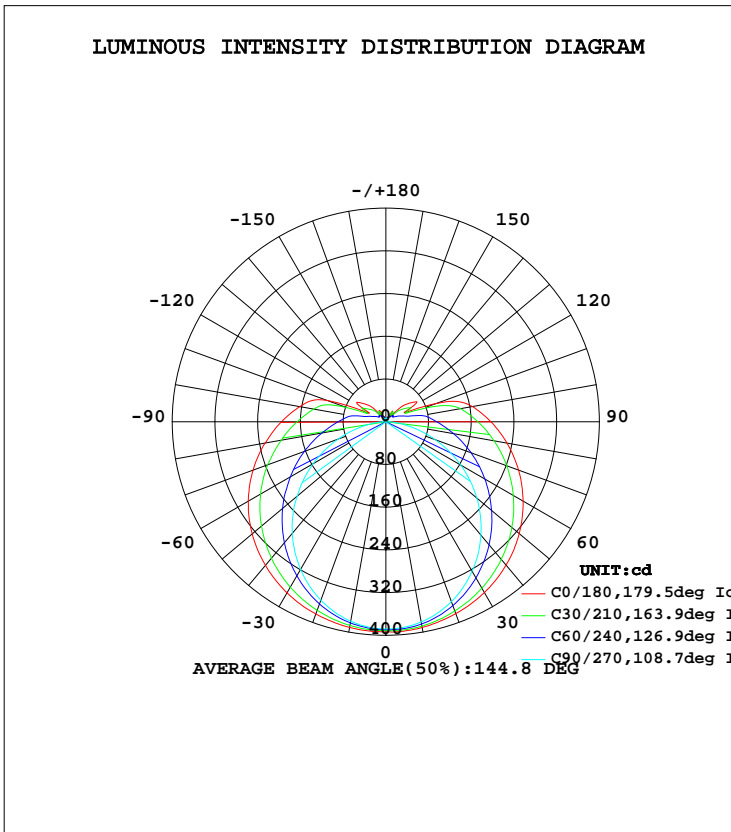


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.5 lm/W			
MODEL	ASD-LVF23-18D20CC-NK	I _{max} (cd)	394.0	S/MH(C0/180)	1.42
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1789.2	η UP, DN(C0-180)	7.9,42.2
NOMINAL FLUX(lm)	1789.23	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	8.0,41.8
LAMPS INSIDE	1	η up(%)	15.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	84.1	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	391.2	386.8	380.9	382.5	391.1	384.6	379.4	381.9	0- 10	36.93	36.93	2.06,2.06
20	382.4	372.5	358.6	367.0	383.0	369.1	355.8	365.4	10- 20	106.7	143.6	8.03,8.03
30	369.4	349.7	322.9	342.5	370.0	345.0	319.4	339.8	20- 30	165.0	308.6	17.3,17.3
40	350.3	320.6	277.1	310.3	350.9	314.4	272.8	307.8	30- 40	206.3	514.9	28.8,28.8
50	326.1	286.1	222.6	272.8	326.9	279.1	217.1	271.2	40- 50	227.3	742.3	41.5,41.5
60	296.8	248.8	161.9	233.5	297.7	240.9	157.5	232.3	50- 60	227.7	970.0	54.2,54.2
70	264.5	209.3	98.39	191.6	264.6	201.9	95.25	193.1	60- 70	210.1	1180	66,66
80	230.4	172.3	39.95	153.2	229.6	164.7	37.98	156.0	70- 80	179.5	1360	76,76
90	196.8	139.2	6.328	120.4	195.6	132.2	6.604	123.8	80- 90	144.5	1504	84.1,84.1
100	164.8	110.4	4.599	94.37	163.9	105.2	5.364	95.33	90-100	114.4	1618	90.5,90.5
110	100.6	42.82	4.664	32.21	116.6	40.23	5.111	36.71	100-110	78.28	1697	94.8,94.8
120	59.10	34.60	5.145	27.84	48.06	32.65	5.319	30.82	110-120	34.04	1731	96.7,96.7
130	52.14	20.64	5.749	17.07	52.31	21.23	6.059	18.53	120-130	27.16	1758	98.3,98.3
140	11.65	23.26	5.826	20.05	17.83	22.76	5.858	18.99	130-140	14.83	1773	99.1,99.1
150	17.79	11.58	6.235	11.07	24.14	12.41	6.007	10.68	140-150	8.749	1782	99.6,99.6
160	8.513	8.714	6.474	9.801	9.176	11.07	6.043	10.45	150-160	4.824	1786	99.8,99.8
170	8.176	6.135	6.366	7.469	10.04	8.110	6.243	7.323	160-170	2.217	1789	100,100
180	6.713	6.774	6.597	6.917	6.732	6.790	6.605	6.901	170-180	0.6669	1789	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

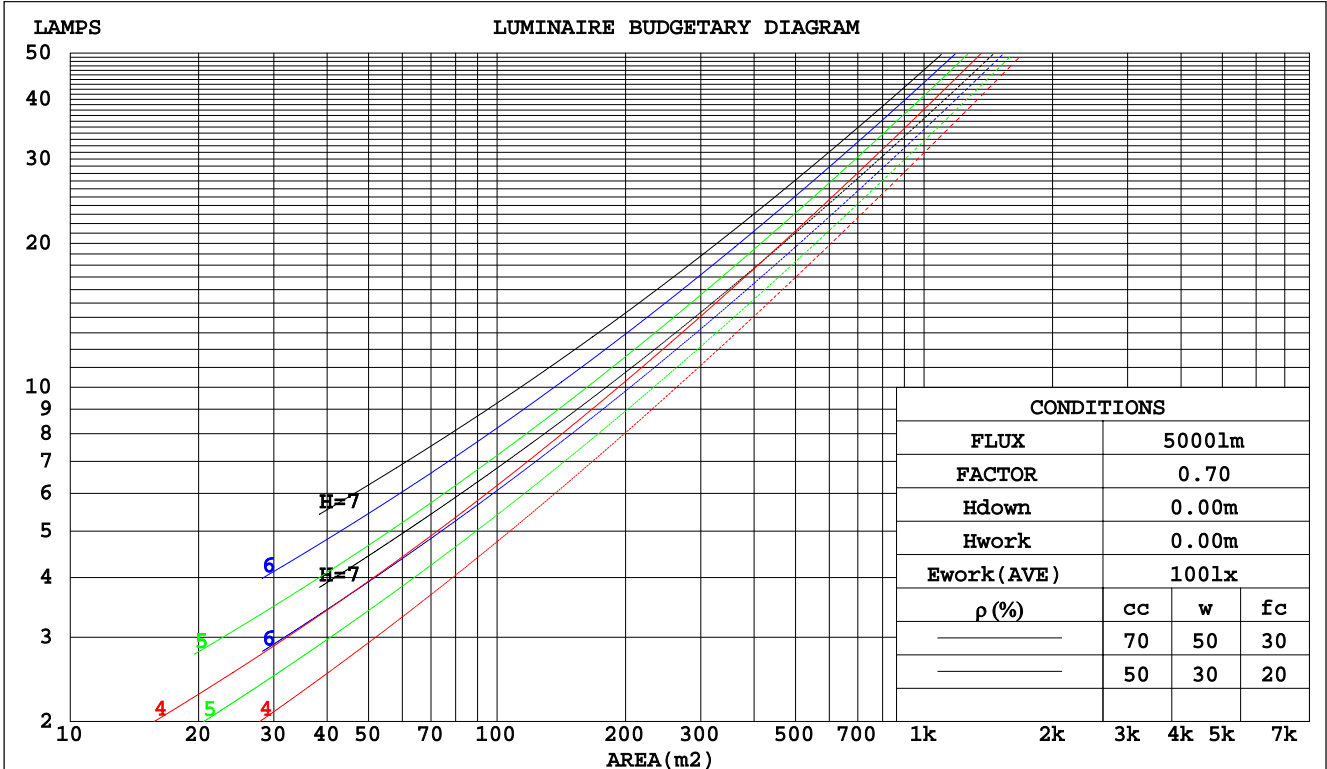
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.15	1.15	1.15	1.11	1.11	1.11	1.02	1.02	1.02	.95	.95	.95	.87	.87	.87	.84
1.0	.96	.90	.85	.92	.87	.82	.84	.80	.77	.78	.75	.72	.72	.69	.67	.63
2.0	.82	.74	.67	.78	.71	.65	.72	.66	.61	.66	.61	.57	.61	.57	.53	.50
3.0	.71	.62	.54	.68	.59	.53	.62	.55	.50	.58	.52	.47	.53	.48	.44	.41
4.0	.62	.52	.45	.60	.51	.44	.55	.47	.42	.51	.44	.39	.47	.41	.37	.34
5.0	.55	.45	.38	.53	.44	.37	.49	.41	.35	.45	.39	.34	.42	.36	.32	.29
6.0	.49	.40	.33	.47	.39	.32	.44	.36	.31	.41	.34	.29	.38	.32	.28	.25
7.0	.44	.35	.29	.43	.34	.28	.40	.32	.27	.37	.30	.26	.34	.29	.24	.22
8.0	.40	.32	.25	.39	.31	.25	.36	.29	.24	.34	.27	.23	.31	.26	.22	.19
9.0	.37	.28	.23	.36	.28	.22	.33	.26	.21	.31	.25	.20	.29	.23	.19	.17
10.0	.34	.26	.20	.33	.25	.20	.31	.24	.19	.29	.23	.18	.27	.21	.18	.16



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION 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 Coefficients(WEC)									
0.0																
1.0	.395	.224	.071	.382	.218	.069	.360	.206	.066	.339	.195	.063	.320	.185	.060	
2.0	.340	.186	.057	.329	.181	.056	.308	.171	.053	.289	.162	.051	.272	.154	.048	
3.0	.301	.160	.048	.291	.156	.047	.272	.148	.045	.255	.140	.043	.239	.133	.041	
4.0	.270	.140	.041	.261	.137	.040	.244	.130	.039	.229	.123	.037	.214	.117	.035	
5.0	.245	.125	.036	.237	.122	.035	.222	.116	.034	.208	.110	.033	.195	.104	.031	
6.0	.224	.112	.032	.217	.110	.032	.203	.104	.030	.190	.099	.029	.178	.094	.028	
7.0	.207	.102	.029	.200	.100	.028	.187	.095	.027	.176	.090	.026	.164	.085	.025	
8.0	.192	.094	.026	.185	.091	.026	.174	.087	.025	.163	.083	.024	.153	.078	.023	
9.0	.178	.086	.024	.173	.084	.024	.162	.080	.023	.152	.076	.022	.143	.072	.021	
10.0	.167	.080	.022	.162	.078	.022	.152	.074	.021	.143	.071	.020	.134	.067	.019	

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	.312	.312	.312	.267	.267	.267	.182	.182	.182	.105	.105	.105	.033	.033	.033	
1.0	.309	.278	.250	.264	.238	.215	.181	.164	.149	.104	.095	.087	.033	.031	.028	
2.0	.302	.255	.215	.259	.219	.186	.177	.152	.130	.102	.088	.076	.033	.029	.025	
3.0	.294	.238	.194	.252	.206	.168	.173	.143	.118	.100	.083	.069	.032	.027	.023	
4.0	.286	.226	.180	.246	.195	.156	.169	.136	.110	.098	.080	.065	.031	.026	.021	
5.0	.279	.216	.170	.239	.187	.148	.165	.131	.104	.096	.077	.062	.031	.025	.020	
6.0	.271	.208	.163	.233	.180	.142	.161	.126	.100	.093	.074	.060	.030	.024	.020	
7.0	.264	.201	.158	.227	.175	.137	.157	.122	.097	.091	.072	.058	.029	.024	.019	
8.0	.257	.196	.154	.221	.170	.134	.153	.119	.095	.089	.070	.057	.029	.023	.019	
9.0	.251	.191	.151	.216	.166	.131	.150	.117	.093	.087	.069	.056	.028	.023	.018	
10.0	.245	.187	.148	.211	.162	.129	.146	.114	.092	.085	.068	.055	.028	.022	.018	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm										
NAME: ASD-LVF23-18D20CC-NK 4000K					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD Lighting corp					SUR.:			PROTECTION 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	18.4	19.8	18.8	20.3	20.8	15.9	17.3	16.4	17.8	18.3
3H	21.1	22.4	21.7	23.0	23.5	17.4	18.7	17.9	19.2	19.8
4H	22.7	23.9	23.2	24.4	25.0	18.0	19.3	18.6	19.8	20.4
6H	24.3	25.5	24.9	26.1	26.7	18.5	19.7	19.1	20.2	20.8
8H	25.3	26.4	25.8	27.0	27.6	18.6	19.8	19.2	20.3	21.0
12H	26.3	27.4	26.9	28.0	28.6	18.7	19.8	19.3	20.4	21.0
4H 2H	18.9	20.2	19.5	20.7	21.3	17.2	18.5	17.7	19.0	19.6
3H	22.0	23.1	22.5	23.6	24.3	19.1	20.1	19.6	20.7	21.4
4H	23.7	24.7	24.3	25.3	26.0	19.9	20.9	20.5	21.5	22.2
6H	25.6	26.5	26.2	27.1	27.8	20.6	21.5	21.2	22.1	22.8
8H	26.7	27.5	27.3	28.2	28.9	20.8	21.7	21.5	22.3	23.0
12H	27.9	28.7	28.5	29.3	30.1	21.0	21.8	21.7	22.5	23.2
8H 4H	24.1	24.9	24.7	25.6	26.3	21.1	22.0	21.8	22.6	23.3
6H	26.3	27.0	27.0	27.7	28.5	22.3	23.0	22.9	23.7	24.4
8H	27.6	28.2	28.3	28.9	29.7	22.8	23.4	23.5	24.1	24.9
12H	29.1	29.6	29.8	30.3	31.1	23.2	23.8	23.9	24.5	25.3
12H 4H	24.1	24.9	24.8	25.5	26.3	21.5	22.3	22.2	23.0	23.7
6H	26.4	27.1	27.1	27.8	28.6	22.9	23.6	23.6	24.3	25.0
8H	27.8	28.4	28.5	29.1	29.9	23.6	24.2	24.3	24.9	25.7
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	+ 0.3 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1789 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

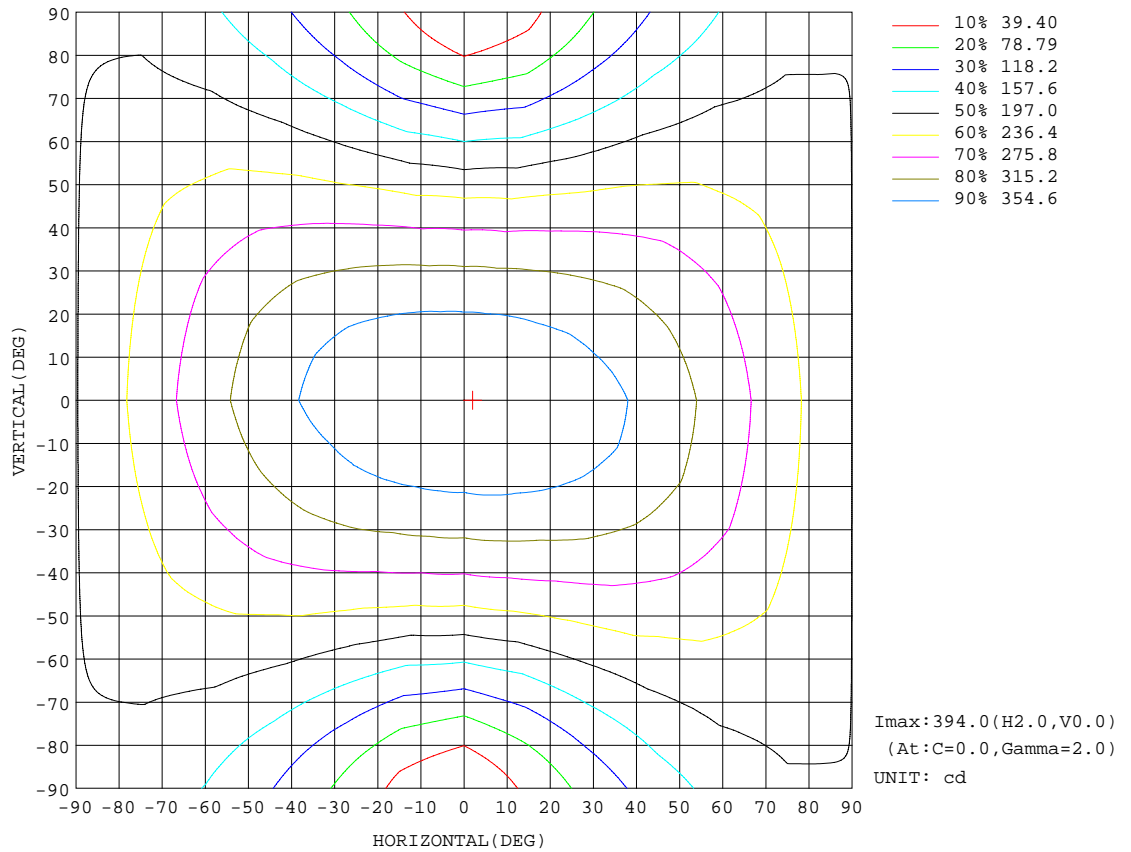
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	48	35	28	47	35	28	45	34	27	21
0.80	57	44	36	56	43	35	53	42	35	27
1.00	65	52	43	63	51	43	60	51	42	33
1.25	72	59	50	69	58	49	65	55	48	39
1.50	77	64	56	74	63	55	70	60	53	43
2.00	84	73	64	81	71	63	76	67	60	49
2.50	88	78	70	85	76	68	79	72	65	53
3.00	92	83	75	89	80	73	83	76	70	57
4.00	97	89	82	93	86	80	87	81	75	62
5.00	100	93	87	96	90	84	89	84	79	65
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

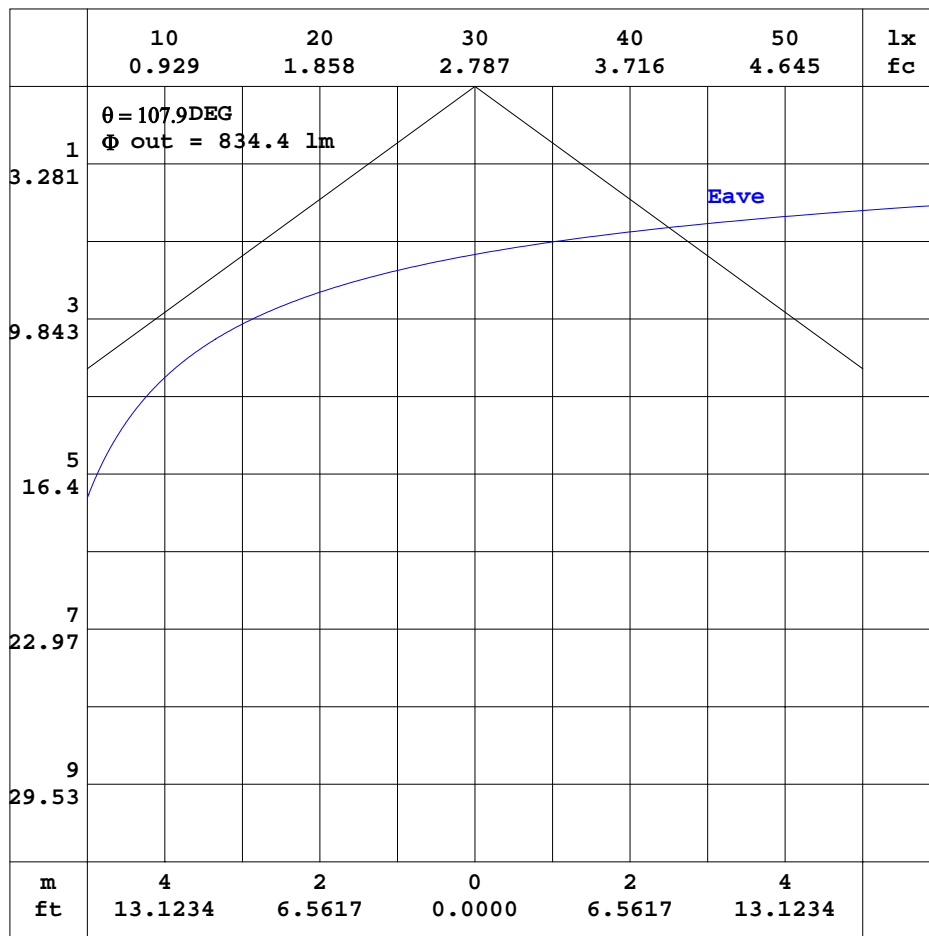


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

AAI CURVES

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



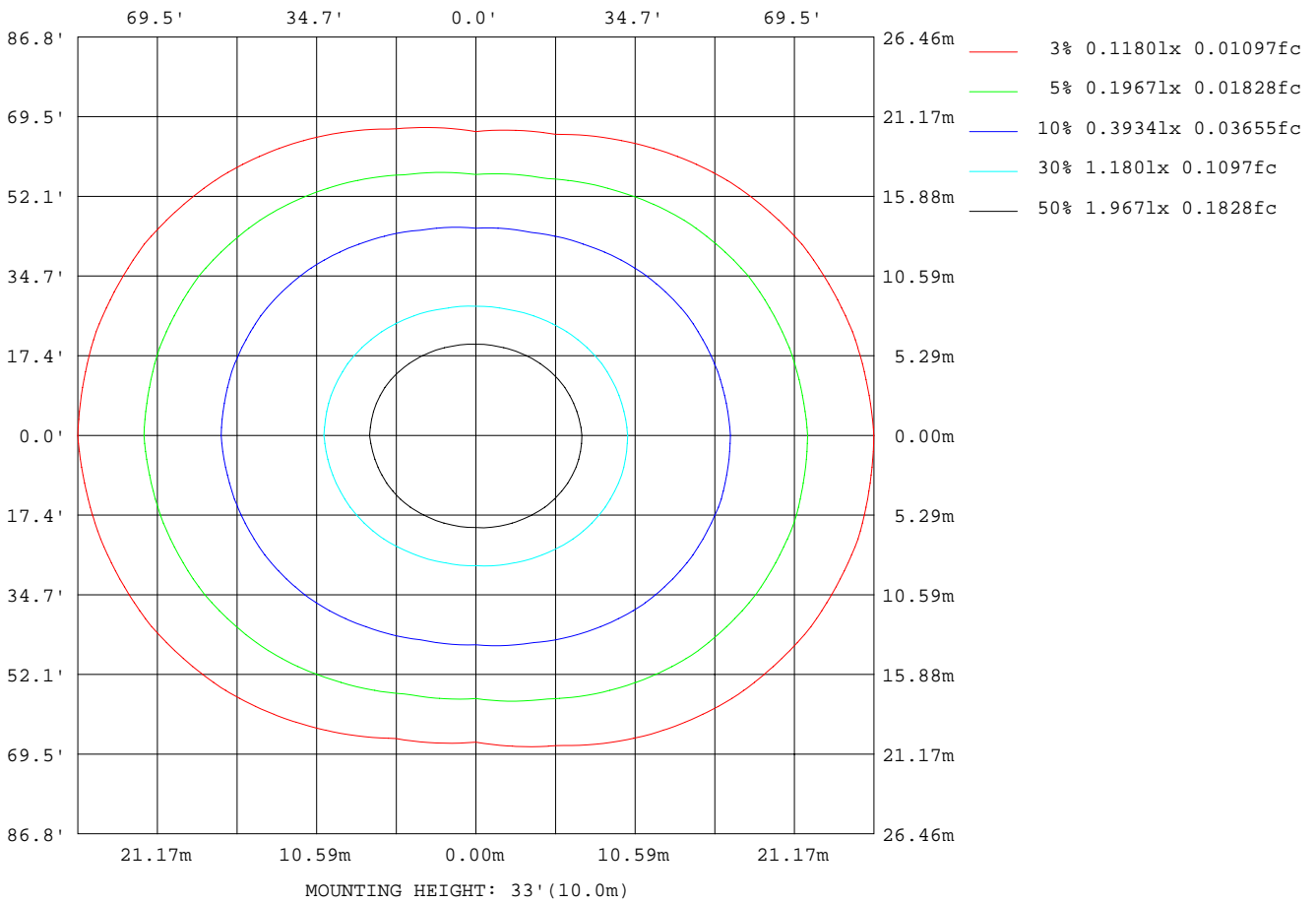
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

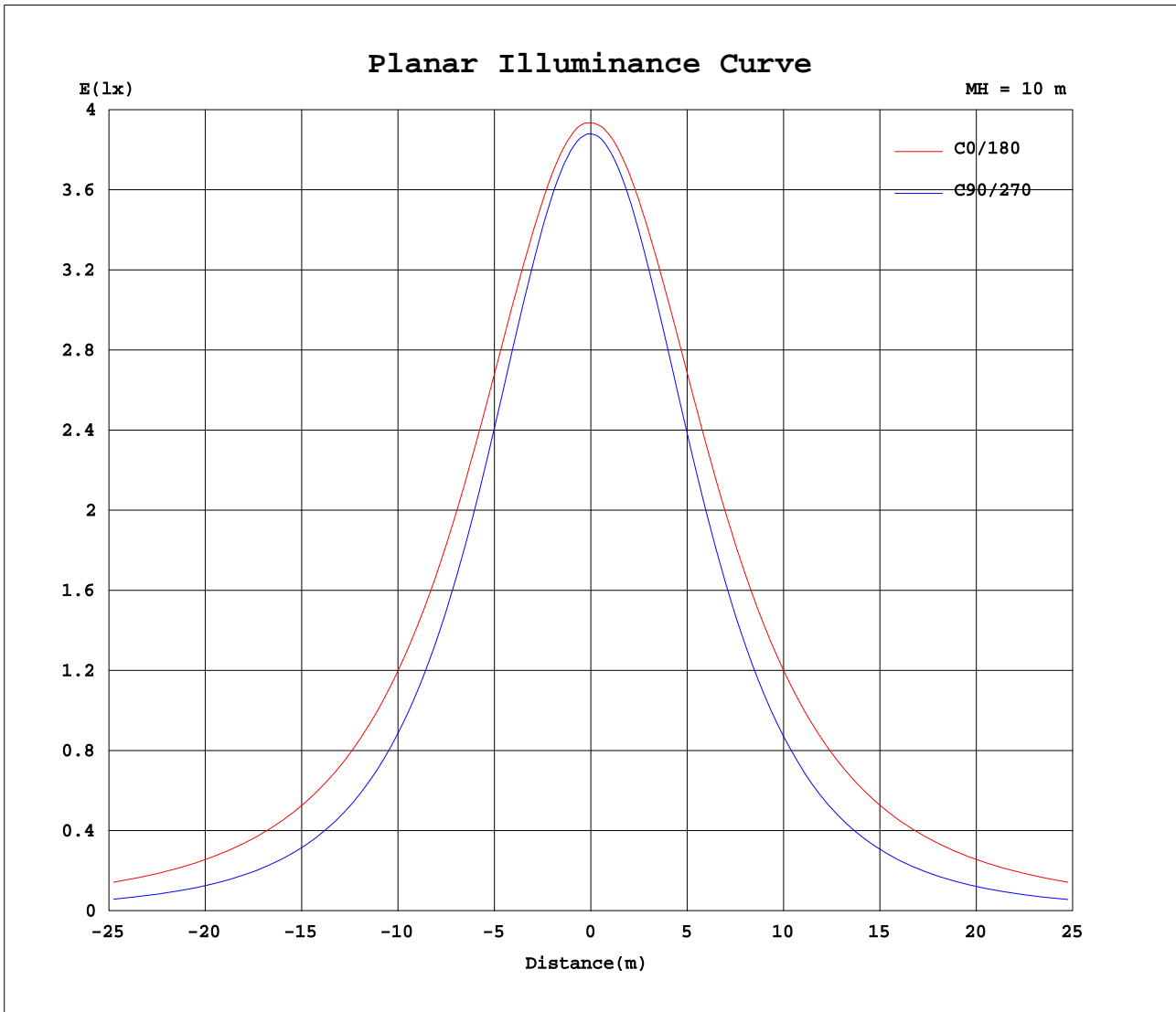
AvgL	cd/m2
L_0~180(65)av	6654
L_0~180(75)av	9558
L_0~180(85)av	24422
L_90~270(65)av	3040
L_90~270(75)av	2573
L_90~270(85)av	1960
L_45(65)av	5176
L_45(75)av	6951
L_45(85)av	16592

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1839A P:20W PF:0.9369 Lamp Flux:1789.23x1 lm		
NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	393	392	391	390	389	389	388	388	388	387	387	387	393	392	391	390	389	389	388
5	394	392	391	390	389	387	386	386	386	386	387	387	393	392	390	389	387	386	386
10	391	390	389	387	385	383	381	381	381	383	383	384	391	389	387	385	382	380	379
15	387	386	384	381	377	374	371	372	374	376	378	380	388	385	383	378	374	371	369
20	382	381	377	373	367	362	359	360	362	367	372	375	383	380	376	369	363	358	356
25	377	375	369	362	353	347	342	344	348	355	363	368	377	374	368	358	349	342	339
30	369	368	360	350	337	329	323	325	332	342	352	360	370	366	358	345	333	323	319
35	361	358	349	336	320	309	301	304	313	327	340	350	361	356	346	331	315	303	297
40	350	348	336	321	301	286	277	281	293	310	327	339	351	345	334	314	296	279	273
45	339	336	323	304	280	261	251	255	270	292	312	327	339	333	319	297	274	254	246
50	326	323	308	286	259	236	223	228	247	273	296	313	327	320	304	279	253	228	217
55	312	309	292	268	236	208	193	199	223	253	279	298	313	306	288	260	230	202	188
60	297	294	275	249	214	181	162	171	199	234	261	282	298	290	271	241	207	174	157
65	281	278	258	229	192	153	131	142	175	212	243	266	281	274	253	221	184	147	126
70	265	261	241	209	170	127	98.4	113	152	192	225	249	265	257	236	202	162	121	95.3
75	247	244	223	191	149	102	67.8	86.8	130	172	207	231	248	239	217	183	141	96.4	65.4
80	230	226	206	172	129	79.6	39.9	63.1	109	153	189	213	230	222	199	165	122	74.2	38.0
85	213	209	189	155	111	60.4	17.6	43.4	91.0	136	172	196	212	205	182	148	104	55.3	16.5
90	197	192	173	139	95.5	46.2	6.33	29.6	76.1	120	156	180	196	188	166	132	89.5	42.1	6.60
95	181	176	157	125	82.8	36.6	5.28	21.8	64.3	107	141	164	179	173	151	118	77.4	33.3	5.65
100	165	161	142	110	67.6	27.5	4.60	15.0	51.1	94.4	127	149	164	157	137	105	64.2	24.9	5.36
105	144	140	117	80.6	40.8	17.4	4.65	11.0	30.4	69.2	109	134	148	142	121	81.1	38.5	15.9	5.13
110	101	96.1	69.2	42.8	31.8	14.3	4.66	9.73	23.9	32.2	61.9	95.3	117	106	78.8	40.2	29.9	13.3	5.11
115	43.9	40.9	40.7	42.4	25.8	12.5	4.81	8.94	18.2	33.0	36.3	36.0	51.4	45.2	37.9	40.6	24.0	12.0	5.24
120	59.1	56.5	52.9	34.6	19.0	10.9	5.14	8.68	14.4	27.8	45.7	52.6	48.1	53.4	51.7	32.6	19.4	11.3	5.32
125	64.5	56.8	43.5	29.9	15.7	9.83	5.46	8.68	14.0	24.7	37.9	51.5	63.5	56.9	42.5	28.1	15.4	11.1	5.55
130	52.1	45.1	34.4	20.6	18.5	10.3	5.75	8.73	15.2	17.1	30.3	41.9	52.3	45.5	35.2	21.2	17.4	11.0	6.06
135	35.2	30.0	18.1	18.2	15.6	8.00	5.67	7.89	14.4	17.8	15.4	31.0	41.6	35.4	26.4	16.8	17.0	9.64	6.01
140	11.7	11.6	15.7	23.3	12.5	6.98	5.83	8.09	10.7	20.0	13.2	10.3	17.8	13.3	15.7	22.8	11.9	8.71	5.86
145	20.7	18.7	23.0	15.3	11.4	7.47	6.07	8.74	10.3	17.2	20.5	17.1	12.9	14.0	23.3	20.8	11.1	9.20	6.10
150	17.8	18.0	13.5	11.6	10.7	6.76	6.23	8.29	10.8	11.1	18.0	20.2	24.1	22.6	20.8	12.4	11.7	8.90	6.01
155	9.67	9.18	9.98	10.6	9.72	5.63	6.33	7.51	10.3	11.5	9.56	10.6	18.2	15.9	11.3	10.9	11.5	7.35	5.98
160	8.51	7.81	8.32	8.71	7.30	5.80	6.47	7.40	8.52	9.80	8.48	7.76	9.18	8.82	9.91	11.1	10.2	6.37	6.04
165	7.95	6.98	7.01	6.49	5.92	5.98	6.36	6.87	7.65	9.12	9.17	7.96	8.05	8.13	8.58	10.0	8.10	6.33	6.14
170	8.18	8.17	6.48	6.14	6.08	6.17	6.37	6.62	6.81	7.47	8.43	9.26	10.0	9.26	8.84	8.11	7.13	5.93	6.24
175	7.17	6.51	6.42	6.32	6.63	6.58	6.60	6.36	6.49	6.62	6.97	7.41	7.96	7.64	7.32	6.49	6.06	6.08	6.26
180	6.71	6.66	6.82	6.77	6.66	6.62	6.60	6.68	6.78	6.92	7.01	6.83	6.73	6.66	6.84	6.79	6.69	6.62	6.60

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

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NAME: ASD-LVF23-18D20CC-NK 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	388	388	387	387	387														
5	385	386	386	387	387														
10	379	381	382	384	384														
15	370	372	375	378	380														
20	357	360	365	371	375														
25	340	346	353	362	368														
30	321	329	340	352	360														
35	300	310	325	340	351														
40	276	290	308	326	339														
45	250	268	290	312	327														
50	224	245	271	297	314														
55	196	221	252	280	299														
60	167	197	232	263	284														
65	139	174	213	246	268														
70	110	152	193	227	251														
75	84.4	130	174	209	234														
80	61.4	110	156	192	217														
85	42.4	92.9	139	176	201														
90	29.8	78.4	124	160	185														
95	22.3	66.9	110	145	169														
100	15.3	53.6	95.3	131	154														
105	11.8	32.7	68.1	108	134														
110	10.7	25.9	36.7	65.3	91.6														
115	10.1	21.2	38.3	40.6	41.3														
120	9.42	16.8	30.8	51.8	58.7														
125	9.61	16.8	25.7	40.1	56.6														
130	9.64	15.4	18.5	32.5	42.4														
135	8.74	12.4	23.1	17.3	27.4														
140	8.38	11.7	19.0	19.0	12.5														
145	8.36	10.7	12.8	20.1	22.5														
150	8.15	11.1	10.7	12.0	14.8														
155	7.80	10.1	11.3	9.45	9.29														
160	7.35	8.78	10.5	8.86	8.50														
165	6.98	7.81	8.28	9.18	8.24														
170	6.74	7.03	7.32	7.39	7.99														
175	6.40	6.47	6.63	6.80	7.05														
180	6.67	6.77	6.90	7.01	6.83														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks: