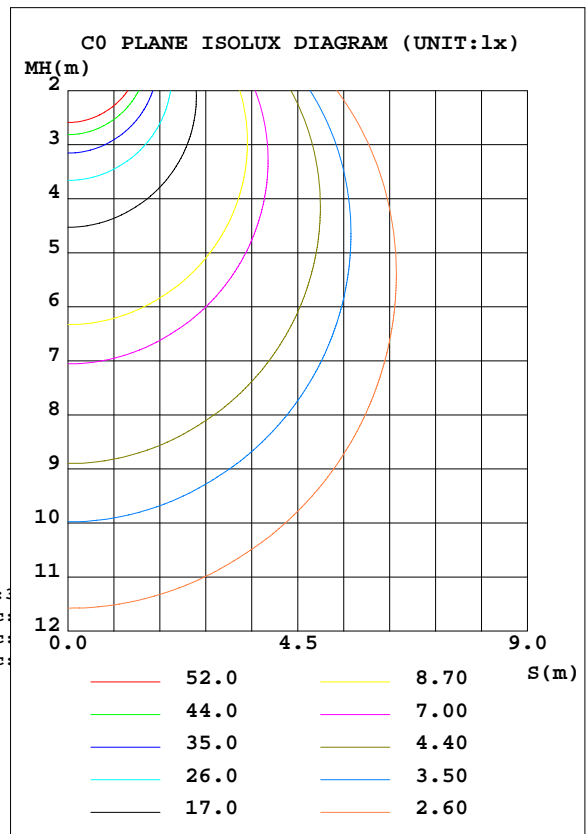
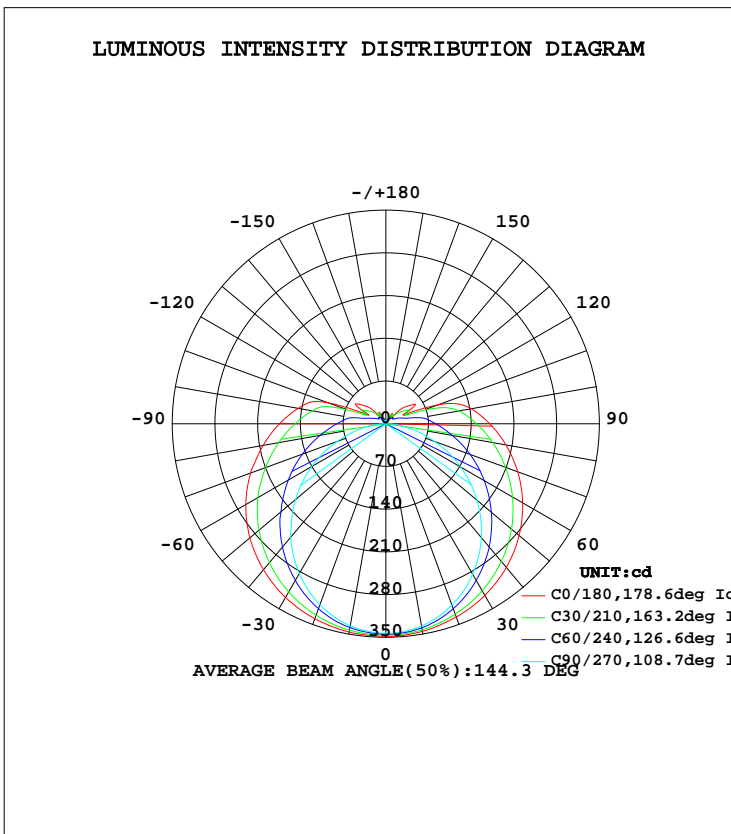


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80 lm/W			
MODEL	ASD-LVF23-18D20CC-BK	I _{max} (cd)	348.5	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)	1600	η UP, DN(C0-180)	7.8,42.1
NOMINAL FLUX(lm)	1600	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	8.0,42.0
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	345.4	341.3	336.6	338.7	346.5	341.2	336.1	337.6	0- 10	32.67	32.67	2.07,2.07
20	337.0	327.6	316.4	325.1	340.0	327.8	315.8	322.4	10- 20	94.38	127.0	8.06,8.06
30	324.7	306.9	284.5	303.4	328.7	307.3	283.7	299.6	20- 30	145.9	272.9	17.3,17.3
40	307.3	280.5	243.7	275.2	312.1	280.5	242.5	271.2	30- 40	182.3	455.2	28.9,28.9
50	285.1	249.5	195.2	242.1	290.8	249.1	193.3	238.4	40- 50	200.7	655.9	41.6,41.6
60	258.8	215.1	141.6	205.8	265.0	215.5	140.6	203.6	50- 60	200.9	856.7	54.3,54.3
70	229.9	181.3	85.58	170.1	235.9	180.9	85.30	168.9	60- 70	185.1	1042	66.1,66.1
80	199.9	148.7	34.25	136.2	204.2	147.6	34.37	136.0	70- 80	157.9	1200	76.1,76.1
90	170.3	119.7	5.393	107.1	174.2	117.9	6.022	107.0	80- 90	127.0	1327	84.1,84.1
100	142.3	94.80	4.079	83.95	146.0	94.30	4.813	82.57	90-100	100.4	1427	90.5,90.5
110	90.59	37.35	4.132	30.31	101.2	35.92	4.552	31.16	100-110	68.78	1496	94.9,94.9
120	45.37	29.79	4.521	24.51	47.28	28.85	4.780	26.59	110-120	29.81	1526	96.7,96.7
130	44.52	18.99	5.083	15.49	46.43	17.50	5.388	15.74	120-130	23.66	1549	98.2,98.2
140	10.50	19.74	5.183	17.72	13.65	20.41	5.288	17.78	130-140	13.05	1562	99.1,99.1
150	17.01	10.09	5.553	9.985	21.42	10.94	5.345	9.199	140-150	7.752	1570	99.6,99.6
160	7.542	7.818	5.784	8.956	7.937	9.797	5.334	8.991	150-160	4.274	1574	99.8,99.8
170	7.231	5.431	5.726	6.714	8.961	7.147	5.461	6.410	160-170	1.966	1576	100,100
180	6.243	6.247	6.031	6.289	6.274	6.247	6.039	6.274	170-180	0.5889	1577	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

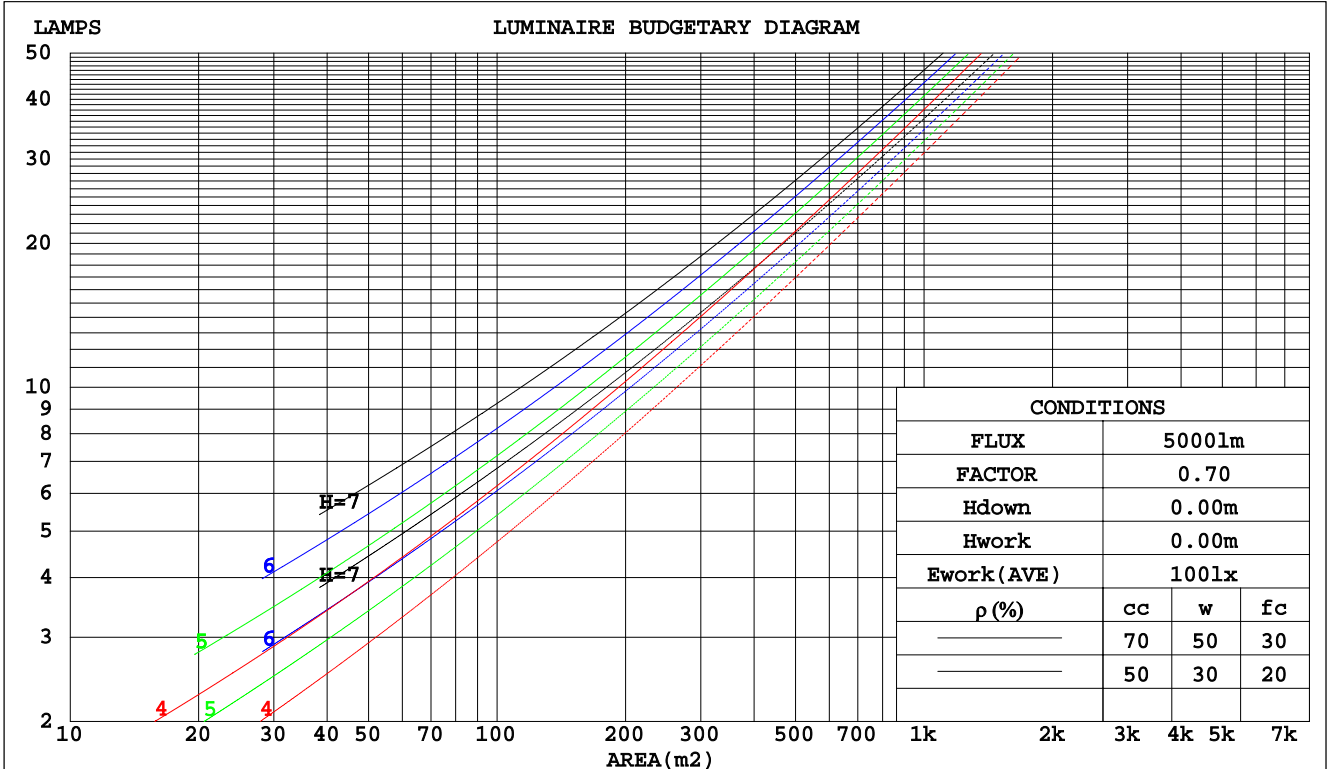
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-08

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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	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	.54	.50
3.0	.71	.62	.54	.68	.60	.53	.63	.56	.50	.58	.52	.47	.53	.48	.44	.41
4.0	.62	.52	.45	.60	.51	.44	.55	.48	.42	.51	.44	.39	.47	.42	.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	.20
9.0	.37	.28	.23	.36	.28	.22	.33	.26	.21	.31	.25	.20	.29	.24	.19	.17
10.0	.34	.26	.20	.33	.25	.20	.31	.24	.19	.29	.23	.18	.27	.22	.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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	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	.394	.224	.071	.382	.218	.069	.359	.206	.066	.339	.195	.063	.319	.185	.060	
2.0	.339	.186	.057	.328	.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	.132	.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	.165	.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	.073	.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	.311	.311	.311	.266	.266	.266	.182	.182	.182	.104	.104	.104	.033	.033	.033	
1.0	.308	.277	.250	.264	.238	.215	.180	.164	.149	.104	.095	.086	.033	.030	.028	
2.0	.301	.254	.215	.258	.219	.186	.177	.152	.130	.102	.088	.076	.033	.029	.025	
3.0	.294	.238	.193	.252	.205	.168	.173	.143	.118	.100	.083	.069	.032	.027	.023	
4.0	.286	.225	.179	.245	.195	.156	.169	.136	.110	.098	.079	.065	.031	.026	.021	
5.0	.278	.216	.169	.239	.186	.147	.165	.130	.104	.095	.076	.062	.031	.025	.020	
6.0	.271	.208	.162	.233	.180	.141	.160	.126	.100	.093	.074	.059	.030	.024	.020	
7.0	.263	.201	.157	.227	.174	.137	.157	.122	.097	.091	.072	.058	.029	.024	.019	
8.0	.257	.195	.153	.221	.169	.134	.153	.119	.095	.089	.070	.056	.029	.023	.019	
9.0	.250	.191	.150	.216	.165	.131	.149	.116	.093	.087	.069	.055	.028	.023	.018	
10.0	.244	.186	.148	.211	.162	.129	.146	.114	.092	.085	.067	.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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm										
NAME: ASD-LVF23-18D20CC-BK 3000K					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	17.8	19.3	18.3	19.7	20.3	15.4	16.8	15.9	17.3	17.8
3H	20.6	21.9	21.1	22.4	23.0	16.9	18.2	17.4	18.7	19.3
4H	22.1	23.4	22.7	23.9	24.5	17.5	18.7	18.0	19.3	19.9
6H	23.8	25.0	24.3	25.5	26.1	18.0	19.1	18.5	19.7	20.3
8H	24.7	25.9	25.3	26.4	27.0	18.1	19.2	18.7	19.8	20.4
12H	25.8	26.9	26.4	27.4	28.1	18.2	19.3	18.8	19.8	20.5
4H 2H	18.4	19.7	19.0	20.2	20.8	16.7	17.9	17.2	18.5	19.0
3H	21.4	22.5	22.0	23.1	23.7	18.5	19.6	19.1	20.2	20.8
4H	23.2	24.2	23.8	24.8	25.4	19.3	20.4	19.9	20.9	21.6
6H	25.1	26.0	25.7	26.6	27.3	20.0	20.9	20.6	21.5	22.2
8H	26.1	27.0	26.8	27.6	28.3	20.3	21.1	20.9	21.7	22.5
12H	27.3	28.1	28.0	28.8	29.5	20.4	21.2	21.1	21.9	22.6
8H 4H	23.5	24.4	24.2	25.0	25.7	20.6	21.4	21.2	22.1	22.8
6H	25.7	26.5	26.4	27.1	27.9	21.7	22.4	22.4	23.1	23.8
8H	27.0	27.7	27.7	28.4	29.1	22.2	22.8	22.9	23.5	24.3
12H	28.5	29.1	29.2	29.8	30.6	22.6	23.2	23.3	23.9	24.7
12H 4H	23.6	24.3	24.2	25.0	25.7	21.0	21.8	21.6	22.4	23.1
6H	25.9	26.5	26.6	27.2	28.0	22.4	23.0	23.0	23.7	24.5
8H	27.3	27.8	28.0	28.5	29.3	23.1	23.6	23.8	24.3	25.1
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 1577 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.6)

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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

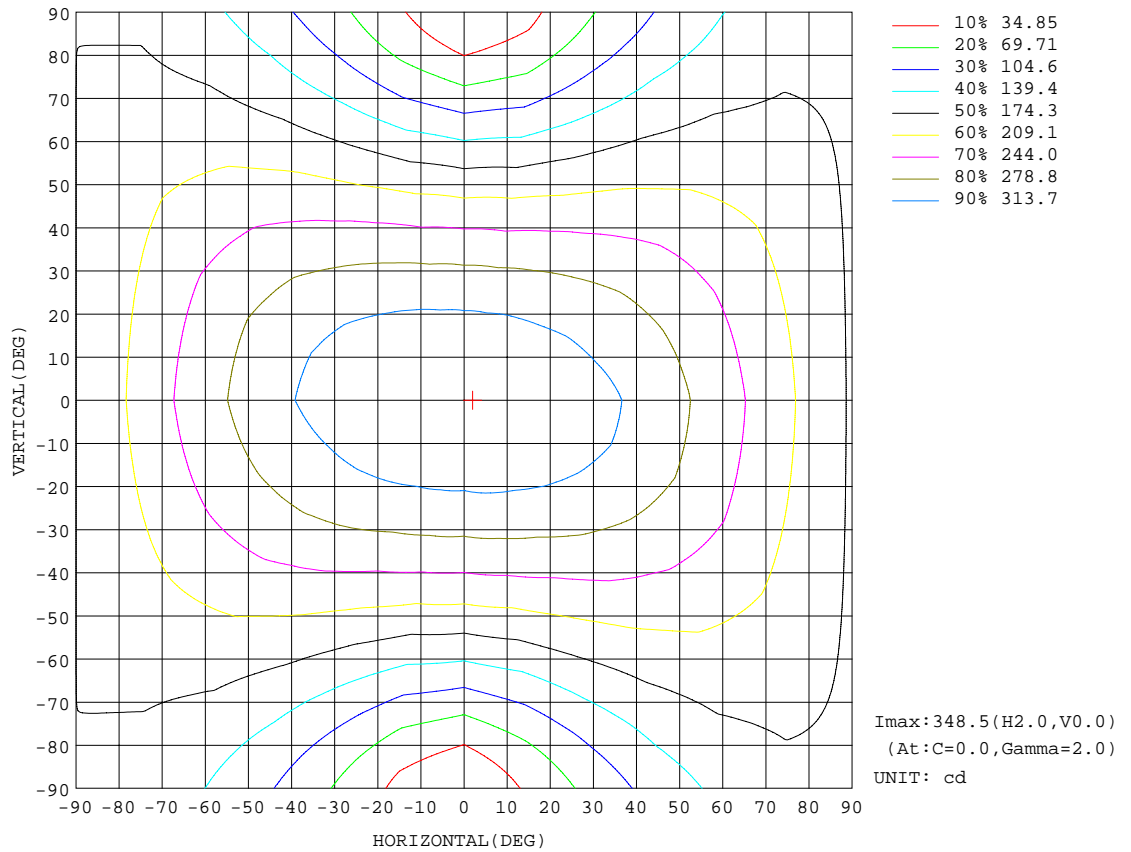
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	48	35	28	47	35	28	45	34	28	21
0.80	57	44	36	56	43	35	53	42	35	27
1.00	65	52	43	63	51	43	60	52	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	89	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	76	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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

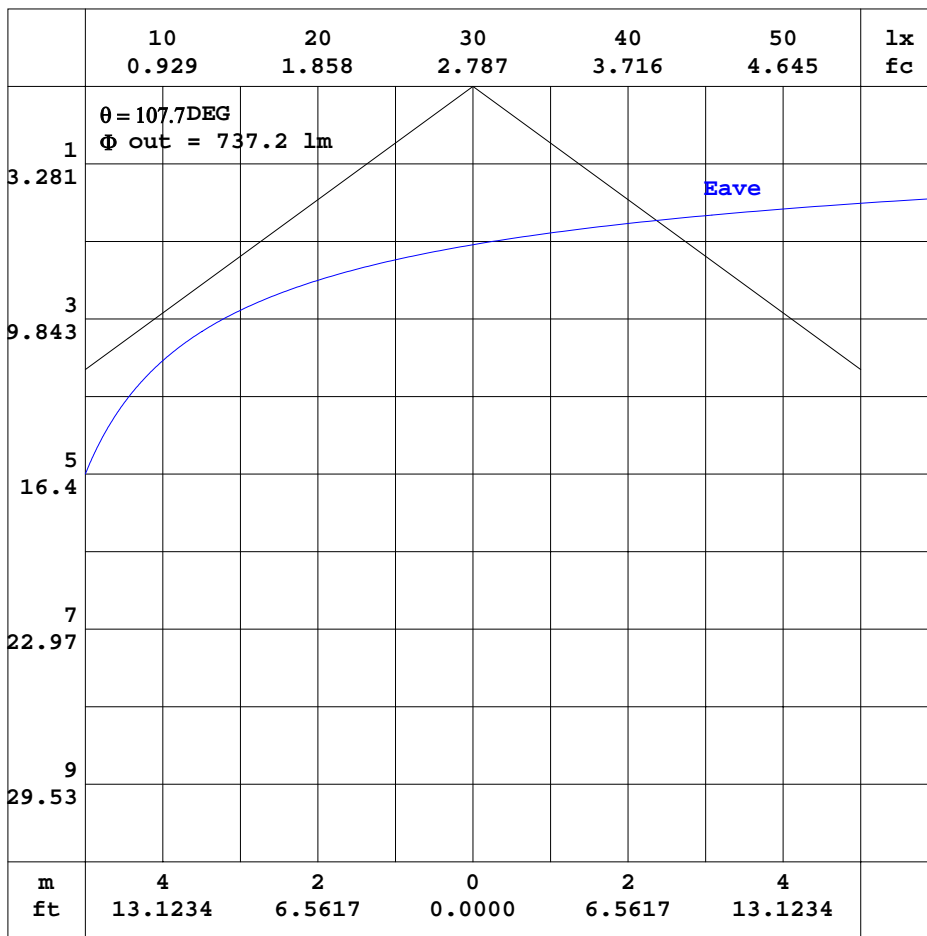


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-08

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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



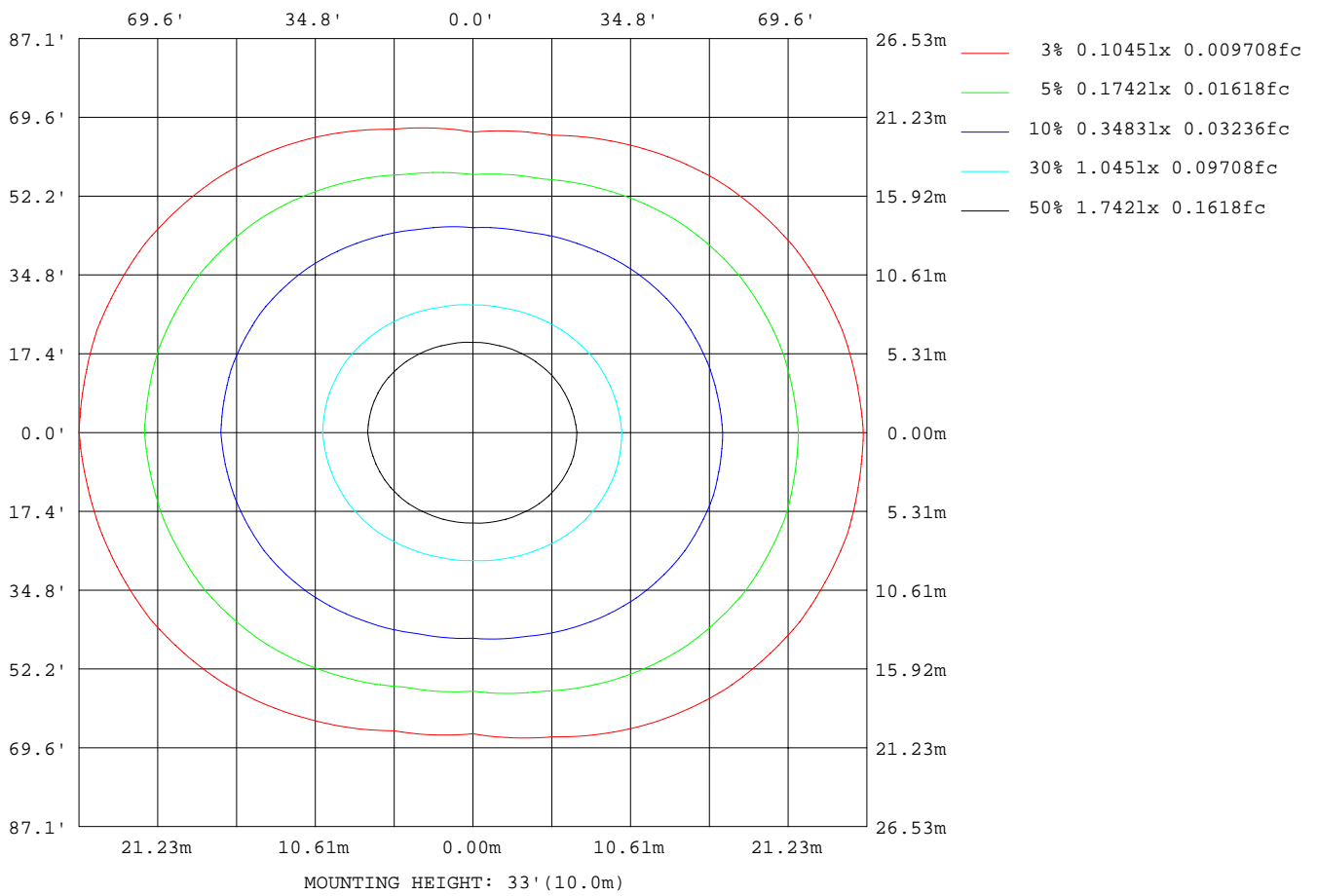
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

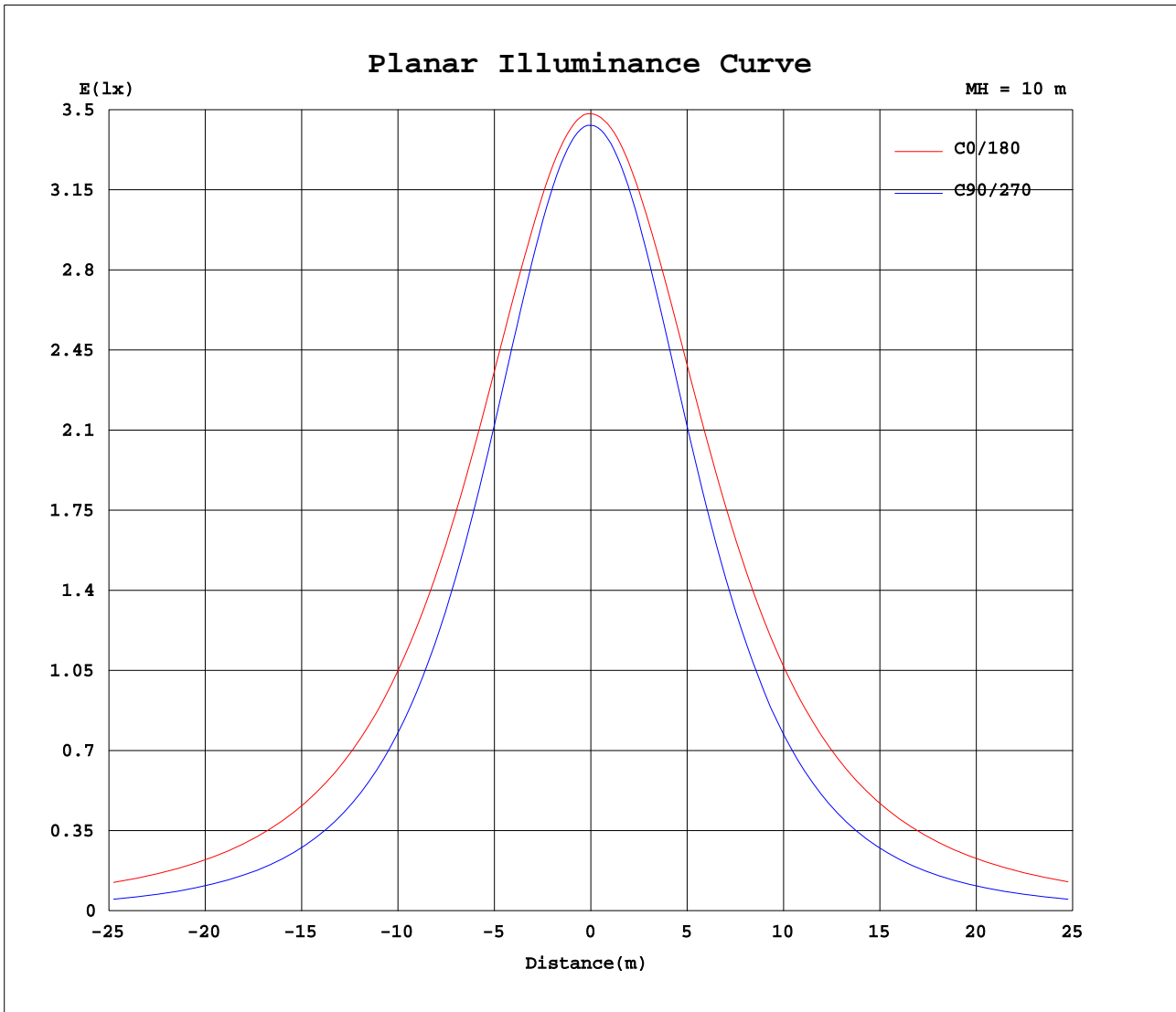
AvgL	cd/m2
L_0~180(65)av	5862
L_0~180(75)av	8390
L_0~180(85)av	21460
L_90~270(65)av	2678
L_90~270(75)av	2270
L_90~270(85)av	1723
L_45(65)av	4557
L_45(75)av	6119
L_45(85)av	14571

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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	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	348	347	346	345	344	344	343	343	343	342	342	342	348	347	346	345	344	344	343
5	348	347	346	345	344	343	342	341	342	342	342	342	348	347	346	344	343	342	341
10	345	345	343	341	340	338	337	337	337	339	340	340	347	345	343	341	339	337	336
15	342	341	338	336	332	330	328	329	330	333	335	337	344	342	339	336	332	329	327
20	337	336	332	328	323	319	316	317	320	325	329	333	340	338	334	328	323	318	316
25	331	330	325	318	311	306	302	303	308	315	322	327	335	332	327	319	311	304	301
30	325	323	316	307	296	289	284	287	293	303	313	320	329	325	318	307	297	288	284
35	317	314	306	294	281	271	265	268	276	290	302	311	321	317	308	295	281	269	264
40	307	305	295	281	264	251	244	247	258	275	290	302	312	308	297	280	263	249	243
45	297	294	282	265	245	229	220	224	239	259	277	291	302	297	285	265	245	227	218
50	285	282	269	250	226	205	195	200	218	242	263	279	291	285	271	249	224	204	193
55	272	269	254	233	206	181	169	175	197	224	248	266	278	273	257	233	204	180	167
60	259	255	239	215	186	157	142	150	176	206	233	252	265	259	242	216	185	156	141
65	245	241	224	198	166	133	113	125	155	188	217	237	251	244	226	198	165	132	113
70	230	225	209	181	147	110	85.6	99.6	135	170	201	221	236	229	210	181	145	108	85.3
75	215	210	193	165	128	88.3	58.7	76.2	114	153	184	205	220	214	194	164	127	86.6	58.8
80	200	195	178	149	110	68.4	34.3	55.4	96.4	136	169	190	204	198	178	148	109	66.7	34.4
85	185	180	163	134	95.1	51.7	14.9	38.1	80.5	121	154	175	189	183	163	132	93.6	49.9	15.1
90	170	166	149	120	81.8	39.3	5.39	26.2	67.4	107	139	160	174	168	149	118	80.4	37.9	6.02
95	156	152	135	107	70.8	31.0	4.61	19.3	57.0	94.9	126	147	160	154	135	106	69.5	30.0	5.07
100	142	138	122	94.8	58.1	23.3	4.08	13.3	44.9	83.9	113	133	146	141	123	94.3	57.3	22.5	4.81
105	125	121	102	71.1	34.8	14.9	4.11	9.82	27.6	60.4	96.9	119	132	127	108	71.2	34.8	14.3	4.58
110	90.6	86.5	63.2	37.4	27.6	12.3	4.13	8.73	21.7	30.3	52.1	82.1	101	92.0	67.4	35.9	26.9	11.9	4.55
115	41.4	38.2	33.4	36.7	22.4	10.9	4.27	8.06	16.5	29.4	34.4	30.4	42.3	37.8	35.1	35.7	21.3	10.7	4.65
120	45.4	44.6	44.9	29.8	16.7	9.52	4.52	7.73	13.1	24.5	40.0	50.7	47.3	50.6	45.4	28.8	17.0	10.1	4.78
125	55.2	48.7	37.1	25.3	13.7	8.64	4.81	7.68	13.0	21.2	33.2	45.9	56.5	50.1	37.5	25.2	13.7	10.0	5.13
130	44.5	38.5	29.1	19.0	15.7	8.94	5.08	7.72	13.3	15.5	26.4	37.3	46.4	40.2	31.8	17.5	15.5	9.85	5.39
135	32.0	27.2	17.5	15.7	14.3	7.25	5.05	7.06	12.0	17.5	13.3	26.4	36.6	30.8	21.8	14.9	15.3	8.59	5.32
140	10.5	10.5	13.4	19.7	11.0	6.36	5.18	7.30	9.69	17.7	13.6	9.43	13.6	11.1	14.1	20.4	10.6	7.96	5.29
145	15.8	14.8	19.9	14.9	10.1	6.56	5.37	7.83	9.37	14.1	18.7	17.6	12.8	14.2	21.9	18.6	9.79	8.31	5.49
150	17.0	16.6	13.7	10.1	8.99	6.09	5.55	7.32	9.76	9.98	14.9	18.3	21.4	20.2	18.5	10.9	10.5	7.78	5.34
155	8.63	8.30	8.80	9.33	8.81	5.00	5.66	6.72	9.11	10.5	8.62	8.37	14.8	12.6	9.91	10.0	10.2	6.47	5.26
160	7.54	7.12	7.62	7.82	6.54	5.13	5.78	6.62	7.55	8.96	7.61	6.96	7.94	7.72	8.87	9.80	8.87	5.61	5.33
165	6.77	6.30	5.91	5.86	5.25	5.31	5.67	6.12	6.94	8.21	8.38	7.70	7.29	6.90	7.74	8.92	7.24	5.50	5.42
170	7.23	7.24	5.92	5.43	5.40	5.45	5.73	5.90	6.07	6.71	7.51	8.25	8.96	8.44	7.76	7.15	6.19	5.23	5.46
175	6.44	5.78	5.70	5.61	5.62	5.78	5.96	5.66	5.77	5.88	6.05	6.47	6.94	6.72	6.31	5.44	5.35	5.37	5.57
180	6.24	6.22	6.32	6.25	6.11	6.05	6.03	6.08	6.16	6.29	6.37	6.05	6.27	6.22	6.35	6.25	6.12	6.04	6.04

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:0.1825A P:20W PF:0.9340 Lamp Flux:1600x1 lm		
NAME: ASD-LVF23-18D20CC-BK 3000K	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	343	343	342	342	342														
5	341	341	342	342	342														
10	336	337	338	339	339														
15	328	329	331	334	335														
20	316	319	322	327	330														
25	302	306	312	319	324														
30	285	291	300	309	316														
35	266	275	286	299	308														
40	245	256	271	287	298														
45	222	237	255	274	287														
50	198	216	238	260	275														
55	174	195	221	245	262														
60	148	174	204	229	248														
65	123	154	186	213	233														
70	98.0	134	169	198	219														
75	74.9	115	152	182	204														
80	54.5	97.0	136	167	189														
85	37.6	81.3	121	153	174														
90	26.3	68.4	107	139	160														
95	19.5	58.2	95.1	126	147														
100	13.4	46.6	82.6	113	133														
105	10.2	27.8	59.8	94.5	116														
110	9.24	22.4	31.2	59.0	82.1														
115	8.69	18.2	33.1	33.0	37.8														
120	8.15	14.3	26.6	44.3	46.6														
125	7.98	13.7	22.9	35.0	48.2														
130	8.55	14.1	15.7	28.9	36.9														
135	7.63	10.6	18.1	15.0	25.6														
140	7.30	10.0	17.8	14.5	10.6														
145	7.24	9.19	11.2	18.4	18.4														
150	7.16	9.62	9.20	10.9	14.1														
155	6.93	9.04	9.33	8.20	8.03														
160	6.56	7.85	8.99	7.55	7.41														
165	6.16	6.81	7.24	7.94	6.97														
170	5.83	6.18	6.41	6.53	7.13														
175	5.60	5.65	5.85	6.16	6.40														
180	6.07	6.17	6.27	6.37	6.05														

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: