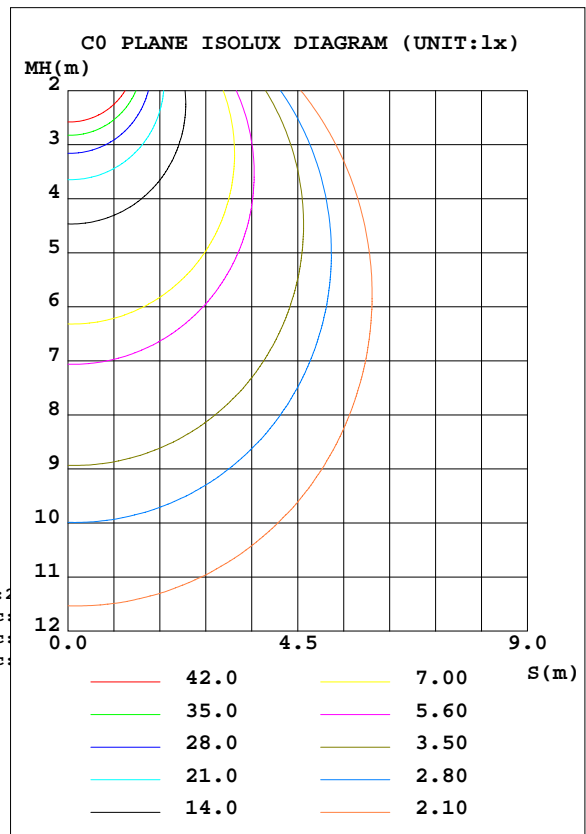
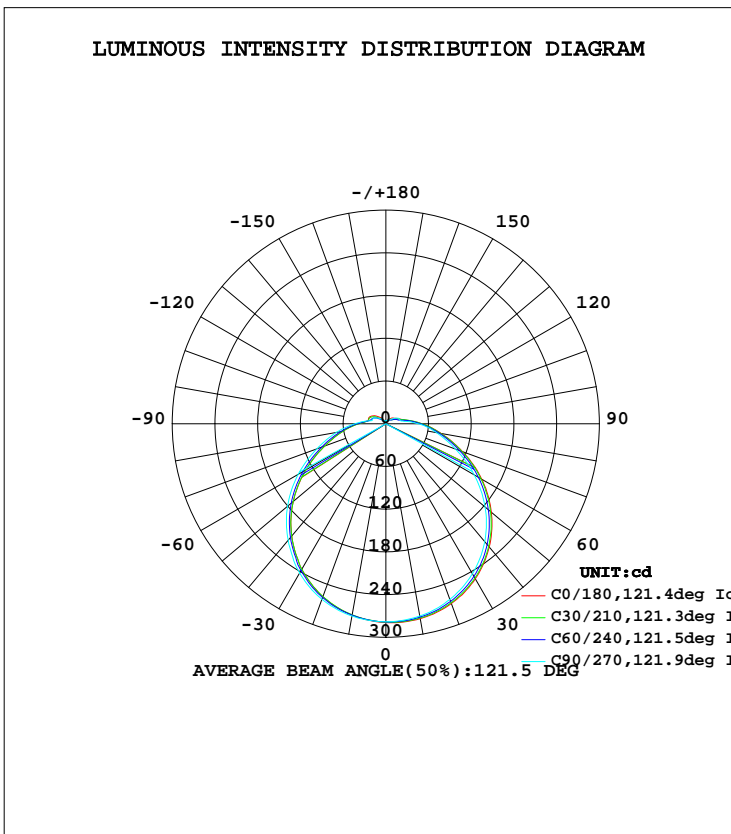


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.38 lm/W			
MODEL	ASD-LFMDR-12D15CC-BZ	Imax(cd)	279.8	S/MH(C0/180)	1.26
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1045.1	η UP, DN(C0-180)	5.2,45.1
NOMINAL FLUX(lm)	1045.12	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.3,44.4
LAMPS INSIDE	1	η up(%)	10.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	89.5	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	278.0	276.5	274.3	272.2	272.8	272.6	274.3	276.1	0- 10	26.38	26.38	2.52,2.52
20	268.7	267.0	262.8	258.6	258.5	258.6	262.5	266.3	10- 20	76.15	102.5	9.81,9.81
30	251.3	249.5	243.2	237.1	236.3	236.5	242.2	248.4	20- 30	117.0	219.6	21,21
40	226.1	222.8	216.2	207.4	205.8	207.3	213.5	222.6	30- 40	143.9	363.4	34.8,34.8
50	193.5	190.3	181.9	172.3	169.8	171.5	180.2	189.8	40- 50	153.4	516.9	49.5,49.5
60	155.4	152.2	143.2	132.7	130.0	131.6	142.3	151.6	50- 60	145.0	661.9	63.3,63.3
70	114.5	112.4	104.2	93.85	91.43	92.45	103.2	111.0	60- 70	121.2	783.1	74.9,74.9
80	79.06	77.22	72.22	62.97	61.45	61.84	70.75	76.05	70- 80	90.75	873.9	83.6,83.6
90	51.20	50.56	45.29	39.31	38.45	38.33	43.55	48.91	80- 90	62.03	935.9	89.5,89.5
100	29.68	29.75	22.72	26.16	25.93	25.15	24.16	29.17	90-100	37.95	973.8	93.2,93.2
110	20.66	18.39	20.33	24.68	25.37	23.59	19.83	21.66	100-110	24.57	998.4	95.5,95.5
120	15.55	11.23	15.99	19.07	22.16	19.14	16.56	14.54	110-120	18.93	1017	97.3,97.3
130	12.82	7.179	10.34	10.11	16.62	11.51	12.07	8.106	120-130	12.26	1030	98.5,98.5
140	8.918	7.508	6.666	7.564	11.10	6.576	7.759	7.168	130-140	7.386	1037	99.2,99.2
150	5.605	6.038	5.416	5.698	6.743	5.255	4.982	5.620	140-150	4.296	1041	99.6,99.6
160	4.807	4.451	4.731	4.409	4.189	4.364	4.294	4.365	150-160	2.314	1044	99.9,99.9
170	3.832	3.794	3.998	3.824	3.905	3.967	4.070	3.878	160-170	1.177	1045	100,100
180	3.978	3.909	3.874	3.894	3.975	3.897	3.874	3.894	170-180	0.3707	1045	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

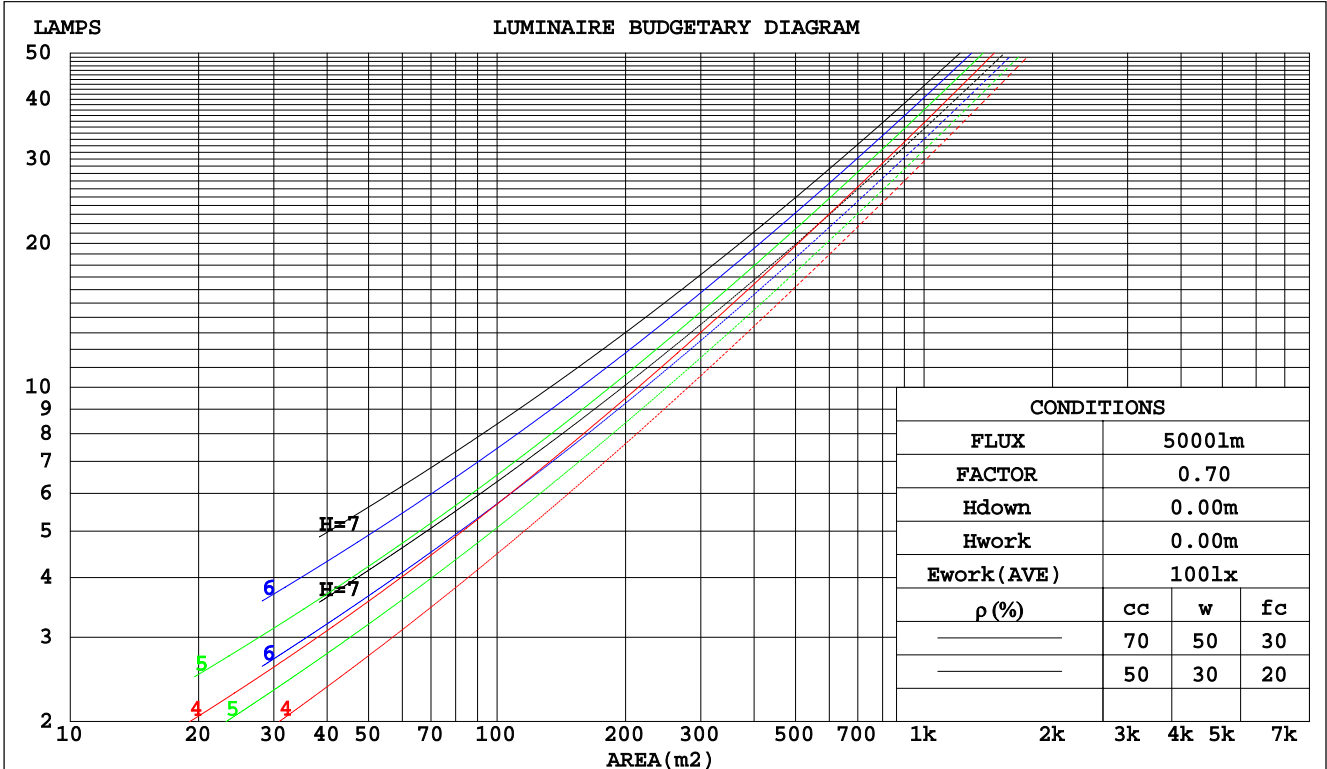
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.05	1.05	1.05	.99	.99	.99	.92	.92	.92	.90
1.0	.99	.94	.89	.95	.91	.87	.89	.85	.82	.83	.80	.78	.78	.76	.73	.70
2.0	.85	.77	.71	.82	.75	.69	.77	.71	.66	.72	.67	.63	.67	.63	.60	.57
3.0	.74	.65	.58	.72	.63	.57	.67	.60	.55	.63	.57	.52	.59	.54	.50	.47
4.0	.65	.56	.49	.63	.55	.48	.59	.52	.46	.56	.49	.44	.52	.47	.43	.40
5.0	.58	.49	.42	.56	.47	.41	.53	.45	.40	.50	.43	.38	.47	.41	.37	.34
6.0	.52	.43	.36	.50	.42	.36	.48	.40	.34	.45	.38	.33	.42	.37	.32	.30
7.0	.47	.38	.32	.46	.37	.31	.43	.36	.30	.41	.34	.29	.39	.33	.28	.26
8.0	.43	.34	.28	.42	.33	.28	.39	.32	.27	.37	.31	.26	.35	.30	.25	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.23	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.22	.33	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-06

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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	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	.363	.206	.065	.352	.201	.064	.333	.191	.061	.315	.182	.058	.299	.173	.056	
2.0	.321	.176	.054	.312	.172	.053	.294	.164	.051	.278	.156	.049	.263	.149	.047	
3.0	.288	.153	.046	.280	.150	.045	.264	.143	.044	.250	.137	.042	.236	.131	.040	
4.0	.261	.136	.040	.254	.133	.039	.240	.127	.038	.227	.122	.037	.215	.117	.036	
5.0	.239	.122	.035	.232	.119	.035	.219	.114	.034	.208	.110	.033	.196	.105	.032	
6.0	.220	.110	.032	.214	.108	.031	.202	.104	.030	.191	.099	.029	.181	.095	.028	
7.0	.203	.100	.028	.198	.099	.028	.187	.095	.027	.177	.091	.026	.168	.087	.026	
8.0	.189	.092	.026	.184	.091	.026	.174	.087	.025	.165	.084	.024	.157	.081	.023	
9.0	.176	.085	.024	.172	.084	.023	.163	.081	.023	.155	.078	.022	.147	.075	.022	
10.0	.165	.079	.022	.161	.078	.022	.153	.075	.021	.145	.072	.021	.138	.070	.020	

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	.270	.270	.270	.231	.231	.231	.158	.158	.158	.091	.091	.091	.029	.029	.029	
1.0	.264	.236	.210	.226	.203	.181	.155	.139	.125	.089	.081	.073	.029	.026	.024	
2.0	.257	.213	.175	.220	.183	.152	.151	.127	.106	.087	.074	.062	.028	.024	.020	
3.0	.249	.196	.153	.214	.169	.133	.147	.117	.093	.085	.068	.055	.027	.022	.018	
4.0	.242	.183	.138	.207	.158	.120	.143	.110	.084	.082	.065	.050	.027	.021	.016	
5.0	.234	.173	.128	.201	.150	.111	.138	.104	.079	.080	.061	.047	.026	.020	.015	
6.0	.226	.165	.120	.195	.143	.105	.134	.100	.074	.078	.059	.044	.025	.019	.015	
7.0	.219	.158	.115	.189	.137	.100	.130	.096	.071	.076	.057	.042	.024	.019	.014	
8.0	.213	.152	.111	.183	.132	.097	.127	.093	.069	.074	.055	.041	.024	.018	.014	
9.0	.207	.147	.108	.178	.128	.094	.123	.090	.067	.072	.053	.040	.023	.017	.013	
10.0	.201	.143	.105	.173	.124	.092	.120	.088	.065	.070	.052	.039	.023	.017	.013	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm										
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K					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	16.3	17.8	16.7	18.2	18.6	16.0	17.5	16.4	17.9	18.3
3H	18.3	19.7	18.8	20.1	20.5	17.9	19.3	18.4	19.7	20.2
4H	19.4	20.6	19.8	21.1	21.5	18.9	20.2	19.4	20.6	21.1
6H	20.4	21.6	20.9	22.1	22.6	19.9	21.1	20.4	21.6	22.1
8H	21.0	22.1	21.5	22.6	23.1	20.5	21.7	21.0	22.1	22.6
12H	21.6	22.7	22.1	23.2	23.8	21.2	22.3	21.7	22.7	23.3
4H 2H	17.0	18.3	17.5	18.7	19.2	16.8	18.0	17.2	18.5	19.0
3H	19.2	20.3	19.7	20.8	21.3	18.9	20.0	19.4	20.5	21.0
4H	20.4	21.4	20.9	21.9	22.5	20.1	21.1	20.6	21.6	22.1
6H	21.7	22.6	22.2	23.1	23.7	21.3	22.2	21.8	22.7	23.3
8H	22.3	23.2	22.9	23.7	24.4	21.9	22.8	22.5	23.3	23.9
12H	23.1	23.9	23.7	24.5	25.1	22.7	23.5	23.3	24.0	24.7
8H 4H	20.8	21.7	21.4	22.2	22.9	20.6	21.4	21.1	22.0	22.6
6H	22.4	23.1	23.0	23.7	24.3	22.0	22.8	22.6	23.3	24.0
8H	23.2	23.9	23.8	24.5	25.1	22.9	23.5	23.5	24.1	24.8
12H	24.2	24.8	24.9	25.4	26.1	23.9	24.4	24.5	25.0	25.7
12H 4H	20.9	21.7	21.5	22.3	22.9	20.6	21.4	21.2	22.0	22.6
6H	22.5	23.2	23.2	23.8	24.5	22.2	22.9	22.9	23.5	24.2
8H	23.5	24.1	24.1	24.7	25.4	23.2	23.8	23.8	24.4	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	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1045 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

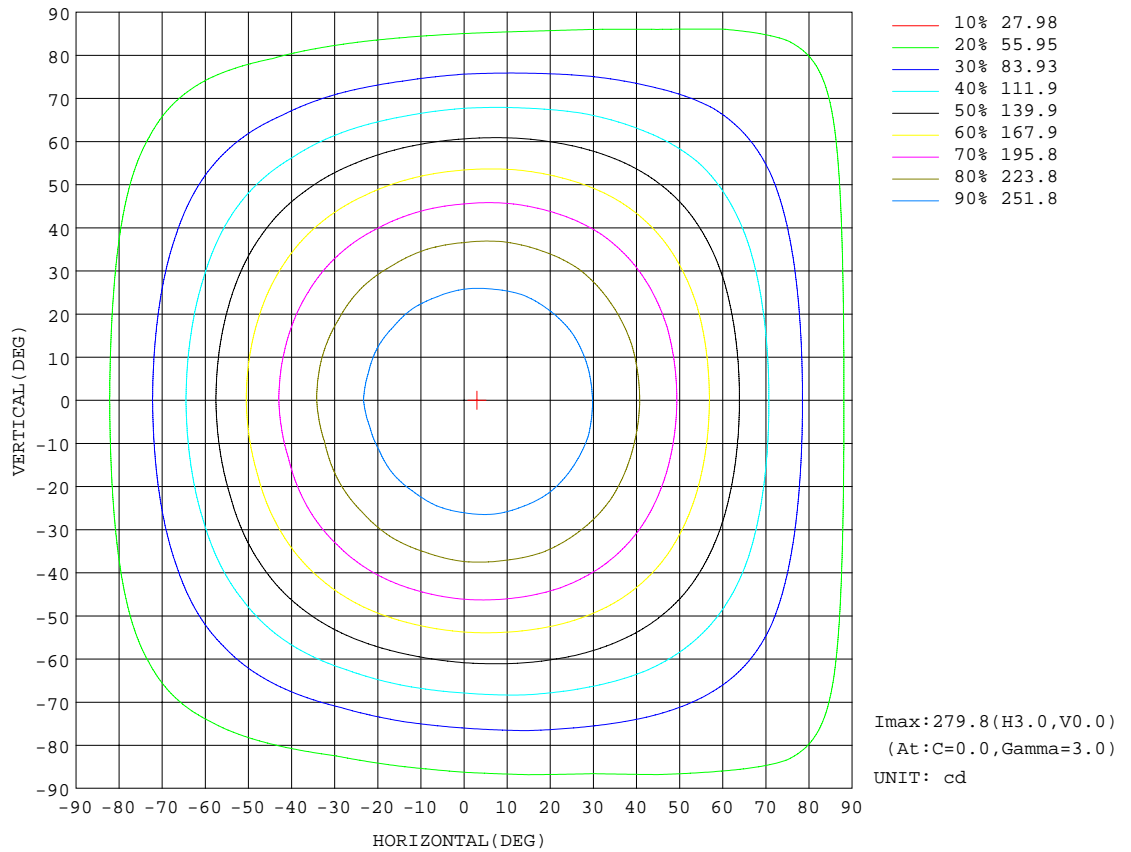
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	39	32	51	39	32	49	38	32	25
0.80	61	48	41	60	48	40	57	47	40	32
1.00	69	57	49	67	56	48	64	57	47	39
1.25	76	64	56	74	63	55	70	61	54	45
1.50	81	70	62	79	68	61	75	66	59	50
2.00	88	78	70	86	76	69	81	73	67	57
2.50	92	83	76	90	81	74	84	77	72	61
3.00	96	87	81	93	85	79	87	81	76	65
4.00	100	93	87	97	91	85	91	86	81	69
5.00	103	97	92	100	94	89	93	89	85	72
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:2022-04-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

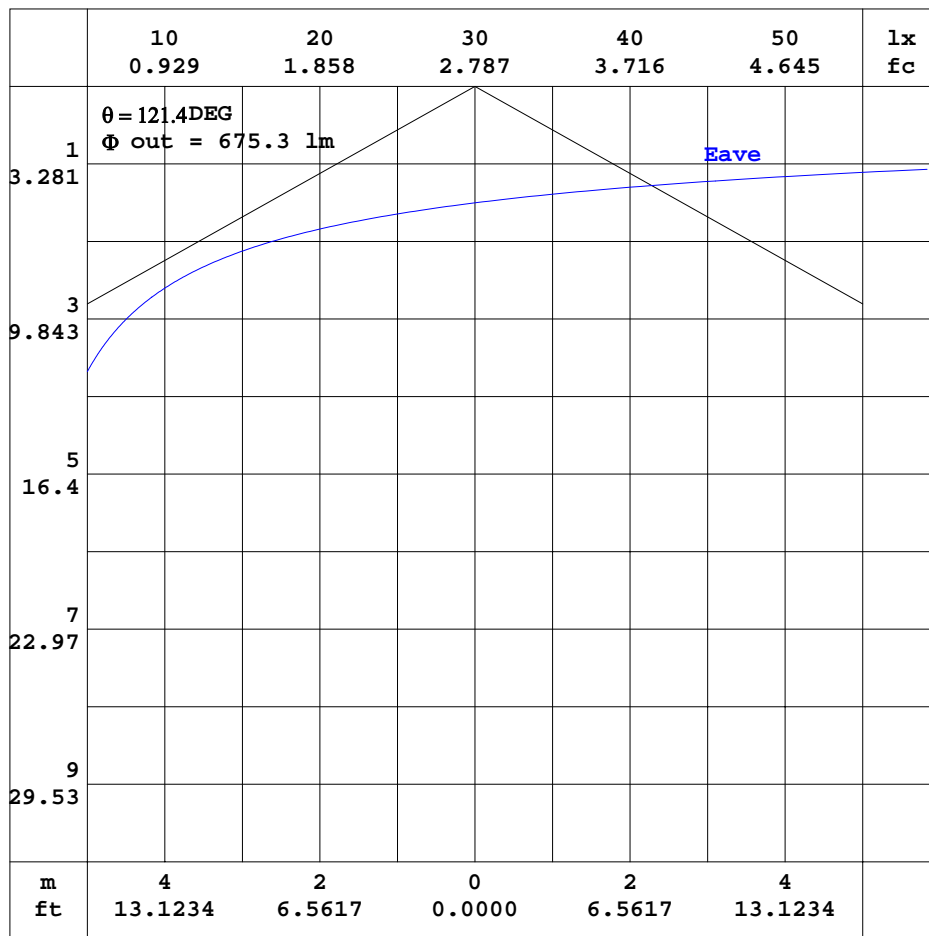


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-06

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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	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.

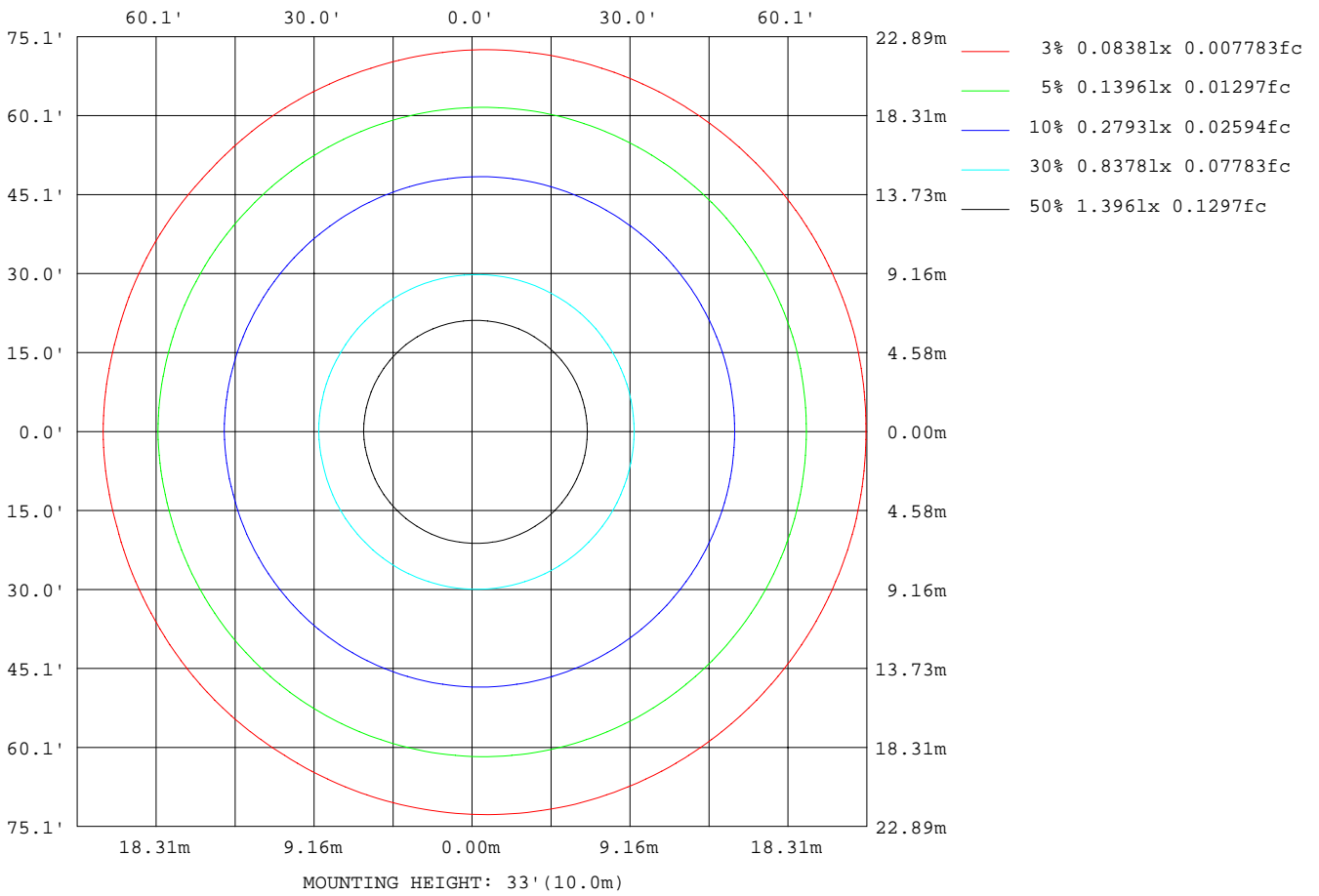
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	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: 2022-04-06

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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

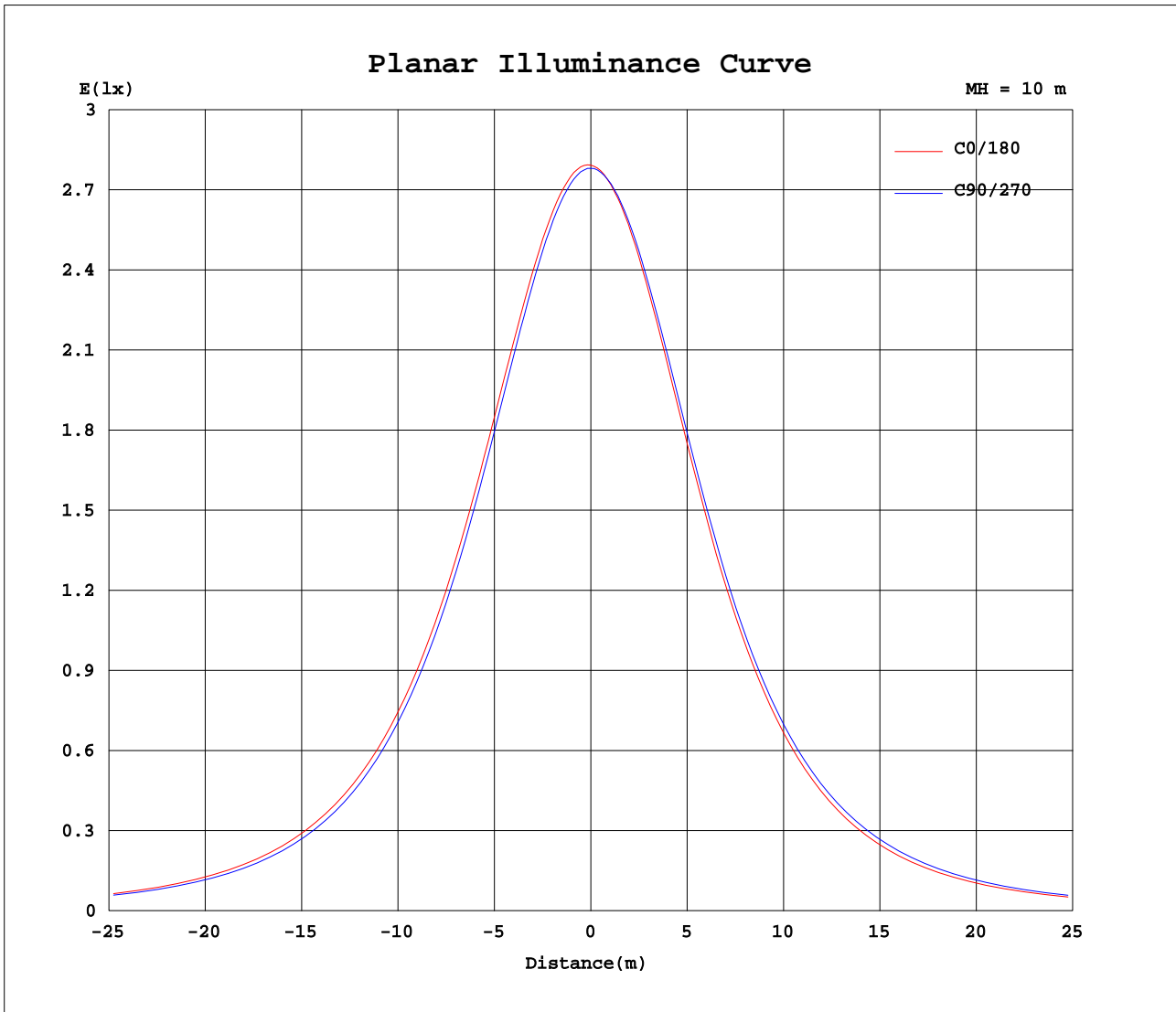
AvgL	cd/m2
L_0~180(65)av	2901
L_0~180(75)av	3309
L_0~180(85)av	6510
L_90~270(65)av	2912
L_90~270(75)av	3343
L_90~270(85)av	6617
L_45(65)av	2882
L_45(75)av	3282
L_45(85)av	6442

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: 2022-04-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	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	279	279	279	278	278	278	278	278	278	278	278	278	279	279	279	278	278	278	278
5	280	279	279	278	278	278	277	277	276	276	276	276	277	277	277	276	277	277	277
10	278	278	277	277	276	275	274	274	273	272	272	271	273	272	272	273	273	273	274
15	274	274	273	273	272	271	269	268	267	266	265	265	267	266	267	267	268	268	269
20	269	269	268	267	266	264	263	261	260	259	257	257	258	258	258	259	260	261	262
25	261	261	260	259	258	256	254	252	250	249	247	247	248	247	248	248	250	251	253
30	251	252	250	250	247	246	243	241	238	237	235	235	236	235	236	237	238	240	242
35	240	240	238	237	235	234	231	227	225	222	221	220	221	221	221	223	224	226	228
40	226	225	225	223	221	218	216	213	210	207	206	204	206	206	206	207	209	211	214
45	211	210	209	207	206	202	200	197	194	191	189	187	188	188	189	190	192	195	198
50	194	193	192	190	188	185	182	179	176	172	170	169	170	170	170	171	174	177	180
55	175	175	174	172	169	166	163	159	156	153	150	149	150	150	150	152	154	158	162
60	155	155	154	152	150	147	143	139	136	133	130	129	130	130	130	132	135	138	142
65	135	135	134	132	130	127	124	119	115	113	110	109	110	109	110	111	115	118	122
70	115	115	114	112	110	108	104	101	96.1	93.9	91.3	90.3	91.4	90.6	91.4	92.4	96.0	99.3	103
75	95.9	96.4	95.0	93.9	92.2	90.6	87.1	83.8	79.5	77.3	75.1	74.3	75.4	74.5	75.3	76.0	79.5	82.3	85.9
80	79.1	79.5	78.3	77.2	76.0	75.1	72.2	69.1	65.0	63.0	61.2	60.6	61.4	60.6	61.4	61.8	64.9	67.4	70.8
85	64.3	64.7	63.7	63.0	61.4	61.5	59.3	56.0	52.2	50.5	49.0	48.5	49.2	48.5	49.1	49.5	51.7	53.8	56.0
90	51.2	51.7	51.1	50.6	48.9	47.6	45.3	43.3	40.7	39.3	38.3	37.7	38.5	37.7	38.1	38.3	40.0	41.3	43.5
95	39.1	39.8	39.8	39.2	38.1	36.5	33.7	33.0	31.6	31.0	30.3	29.8	30.6	29.9	29.8	29.8	31.0	31.6	33.7
100	29.7	30.2	30.4	29.7	28.1	24.2	22.7	24.6	26.2	26.2	25.7	25.2	25.9	25.6	25.3	25.2	24.6	22.4	24.2
105	23.7	22.5	23.5	22.6	20.2	19.6	20.5	21.3	24.2	25.1	25.0	24.9	25.5	24.7	24.8	24.1	22.0	20.0	20.0
110	20.7	18.4	19.5	18.4	17.1	18.5	20.3	20.3	23.0	24.7	23.9	24.3	25.4	23.9	24.3	23.6	20.8	19.3	19.8
115	17.9	15.9	16.3	15.2	14.9	16.7	18.9	18.5	20.5	22.4	21.6	23.0	24.4	22.4	22.5	22.2	19.2	18.2	18.7
120	15.5	14.6	12.4	11.2	11.9	14.4	16.0	15.7	17.0	19.1	18.2	21.2	22.2	19.9	20.1	19.1	16.5	16.5	16.6
125	13.8	13.2	9.68	7.98	9.60	12.4	12.9	12.4	12.7	14.4	15.3	18.9	19.7	17.5	16.7	15.6	13.3	13.9	14.3
130	12.8	12.3	9.17	7.18	8.32	10.3	10.3	9.77	8.84	10.1	13.2	15.9	16.6	15.1	12.8	11.5	10.2	11.6	12.1
135	11.3	10.9	9.07	7.63	7.42	8.13	8.20	8.09	6.88	8.11	11.9	13.2	13.4	12.7	10.1	8.23	8.21	9.56	9.87
140	8.92	8.75	8.23	7.51	6.41	6.80	6.67	6.69	6.67	7.56	10.1	11.1	11.1	10.4	8.32	6.58	7.01	7.58	7.76
145	6.82	6.66	6.85	6.74	6.22	6.34	5.97	5.94	6.03	6.82	8.00	8.80	9.22	8.33	6.97	6.10	5.75	5.73	5.90
150	5.60	5.44	5.83	6.04	6.14	5.82	5.42	5.61	5.43	5.70	6.01	6.31	6.74	6.16	5.62	5.25	4.71	4.85	4.98
155	5.04	4.88	4.85	5.43	5.30	5.29	5.15	5.24	5.17	4.93	4.66	4.57	4.95	4.74	4.78	4.65	4.55	4.48	4.47
160	4.81	4.82	4.75	4.45	4.48	4.73	4.73	4.76	4.57	4.41	4.15	4.08	4.19	4.11	4.20	4.36	4.39	4.38	4.29
165	4.09	4.03	3.91	3.98	4.11	4.26	4.29	4.27	4.18	4.07	3.91	3.92	3.98	3.99	4.06	4.14	4.17	4.19	4.16
170	3.83	3.82	3.80	3.79	3.86	3.97	4.00	3.99	3.91	3.82	3.84	3.84	3.91	3.89	3.87	3.97	4.03	4.06	4.07
175	3.90	3.88	3.86	3.85	3.85	3.84	3.85	3.85	3.86	3.86	3.88	3.89	3.94	3.91	3.91	3.88	3.87	3.86	3.86
180	3.98	3.95	3.93	3.91	3.88	3.87	3.87	3.88	3.88	3.89	3.91	3.92	3.97	3.95	3.93	3.90	3.88	3.87	3.87

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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:0.1403A P:15.99W PF:0.9498 Lamp Flux:1045.12x1 lm		
NAME: ASD-LFMDR-12D15CC-BZ/BK 5000K	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	278	278	278	278	278														
5	277	278	278	278	279														
10	275	275	276	276	277														
15	270	271	272	273	273														
20	264	265	266	267	268														
25	255	257	258	260	260														
30	244	247	248	250	251														
35	231	234	236	238	239														
40	217	219	223	224	226														
45	201	204	207	209	210														
50	184	187	190	192	194														
55	165	168	171	174	175														
60	146	149	152	154	156														
65	126	129	132	134	136														
70	106	109	111	114	115														
75	88.2	91.0	92.5	95.4	96.3														
80	72.5	74.4	76.1	78.6	79.5														
85	57.9	59.9	61.6	63.9	64.7														
90	45.4	47.5	48.9	50.9	51.6														
95	34.9	36.8	37.5	39.1	39.4														
100	24.6	28.5	29.2	30.1	29.8														
105	19.3	22.4	24.0	24.8	23.7														
110	18.6	19.6	21.7	22.6	20.7														
115	17.5	16.8	18.6	19.7	18.1														
120	15.3	13.9	14.5	15.7	15.8														
125	13.1	11.1	10.4	11.6	14.0														
130	11.4	9.21	8.11	8.56	12.3														
135	9.58	8.45	7.50	7.80	10.5														
140	7.59	7.35	7.17	8.04	8.78														
145	6.00	6.04	6.74	7.01	6.94														
150	5.25	5.36	5.62	6.03	5.71														
155	4.82	4.97	5.21	5.04	4.98														
160	4.31	4.28	4.36	4.71	4.81														
165	4.08	4.00	3.96	4.02	4.09														
170	4.06	3.99	3.88	3.85	3.87														
175	3.87	3.87	3.88	3.89	3.91														
180	3.88	3.89	3.89	3.91	3.92														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-06

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: