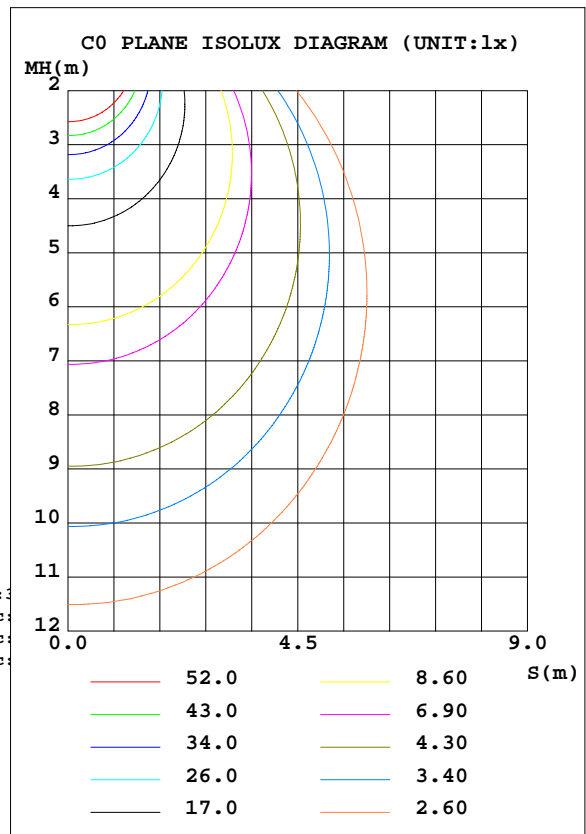
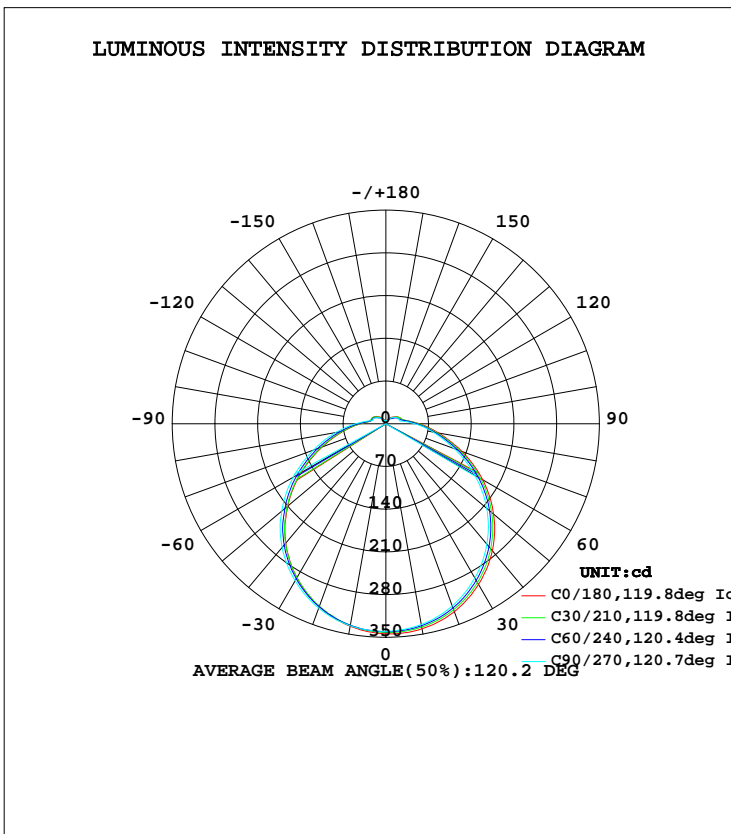


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.60 lm/W			
MODEL	LFMDR-14D21CC-BZ/BN	I _{max} (cd)	344.5	S/MH(C0/180)	1.26
NOMINAL POWER(W)	21	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1654	η UP, DN(C0-180)	5.2,44.4
NOMINAL FLUX(lm)	1654	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.2,45.2
LAMPS INSIDE	1	η up(%)	10.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	89.6	CIBSE SHR MAX	1.35



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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	341.1	337.3	334.1	332.2	336.8	335.0	336.0	337.1	0- 10	32.29	32.29	2.58,2.58
20	327.8	323.2	317.9	314.3	318.9	318.1	321.6	324.1	10- 20	92.99	125.3	10,10
30	303.8	298.8	291.7	286.7	291.4	291.6	297.2	301.4	20- 30	142.4	267.7	21.4,21.4
40	271.6	266.0	257.5	251.1	255.2	256.4	264.5	269.6	30- 40	174.7	442.3	35.3,35.3
50	230.7	224.0	215.8	206.4	210.0	213.3	222.6	229.6	40- 50	185.9	628.3	50.2,50.2
60	182.9	177.0	168.2	157.7	160.4	164.6	175.5	182.7	50- 60	174.7	803.0	64.2,64.2
70	132.5	127.2	119.1	109.0	110.9	114.6	126.3	133.0	60- 70	144.7	947.6	75.7,75.7
80	87.90	83.77	78.39	69.96	70.85	73.55	83.63	88.47	70- 80	105.1	1053	84.1,84.1
90	55.18	52.75	47.34	42.20	41.66	42.91	49.71	55.27	80- 90	68.79	1122	89.6,89.6
100	32.84	32.63	25.64	26.95	25.91	26.64	28.03	33.25	90-100	41.06	1163	92.9,92.9
110	26.32	26.19	22.71	25.26	24.94	24.99	22.34	26.39	100-110	27.27	1190	95.1,95.1
120	22.60	21.76	20.43	22.01	22.76	21.46	19.81	21.87	110-120	22.84	1213	96.9,96.9
130	17.74	15.21	16.27	16.91	18.59	16.48	15.60	15.52	120-130	16.69	1229	98.2,98.2
140	13.87	10.80	12.21	11.58	14.16	12.19	11.42	11.04	130-140	10.79	1240	99.1,99.1
150	9.852	7.684	8.396	7.573	9.396	7.682	7.934	8.183	140-150	6.374	1247	99.6,99.6
160	5.945	5.425	5.625	5.460	6.148	5.497	5.802	5.524	150-160	3.198	1250	99.8,99.8
170	4.653	4.679	4.768	4.837	4.979	4.899	4.771	4.672	160-170	1.463	1251	100,100
180	4.768	4.726	4.702	4.726	4.787	4.718	4.706	4.729	170-180	0.4516	1252	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

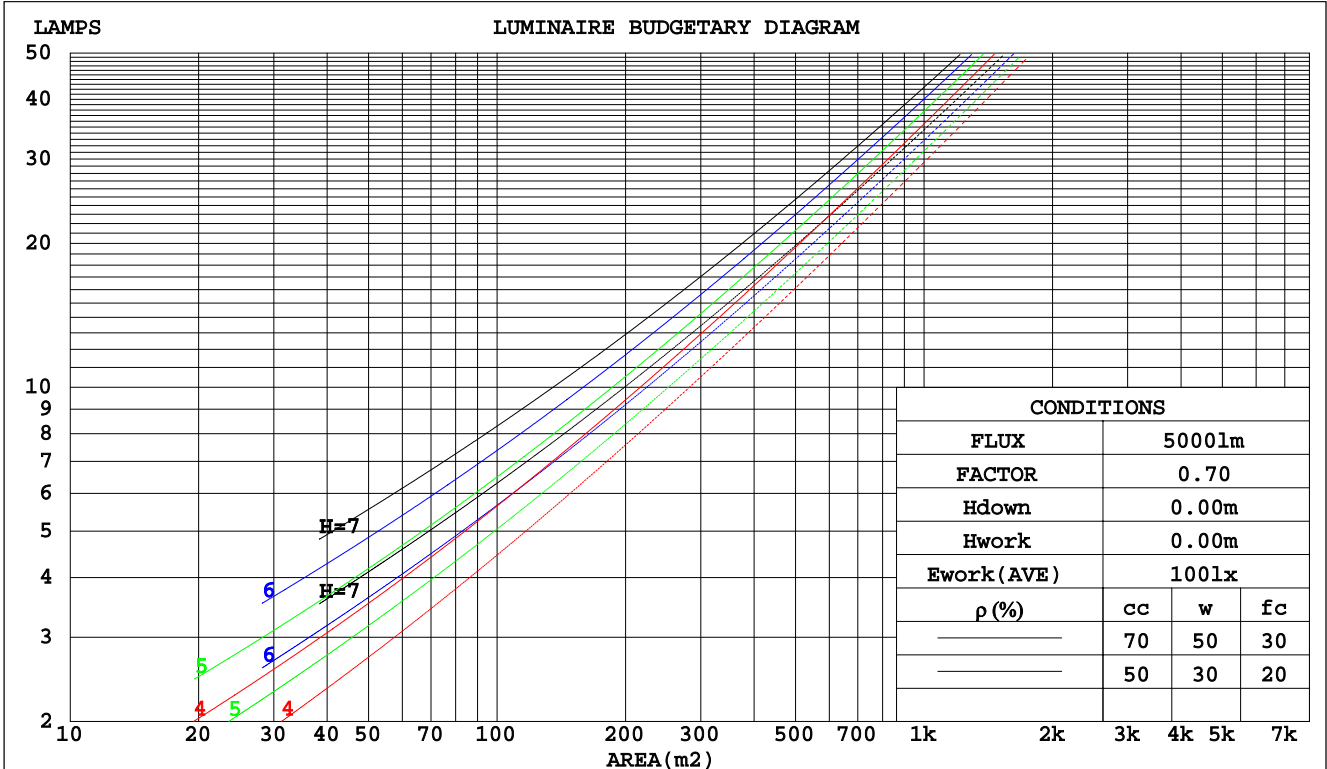
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-06

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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 5000K	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																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	.90	.96	.91	.87	.89	.86	.82	.84	.81	.78	.78	.76	.74	.71
2.0	.85	.78	.72	.82	.76	.70	.77	.72	.67	.72	.68	.64	.68	.64	.61	.58
3.0	.74	.66	.59	.72	.64	.58	.67	.61	.55	.63	.58	.53	.59	.55	.51	.48
4.0	.66	.56	.49	.64	.55	.48	.60	.52	.47	.56	.50	.45	.53	.47	.43	.41
5.0	.58	.49	.42	.57	.48	.41	.53	.46	.40	.50	.44	.39	.47	.42	.37	.35
6.0	.52	.43	.37	.51	.42	.36	.48	.40	.35	.45	.39	.34	.43	.37	.33	.30
7.0	.47	.38	.32	.46	.38	.32	.44	.36	.31	.41	.35	.30	.39	.33	.29	.27
8.0	.43	.34	.28	.42	.34	.28	.40	.32	.27	.38	.31	.26	.36	.30	.26	.24
9.0	.39	.31	.25	.38	.31	.25	.37	.29	.24	.35	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.22	.31	.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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 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	.357	.203	.064	.346	.198	.063	.327	.188	.060	.309	.178	.057	.293	.170	.055	
2.0	.317	.174	.053	.308	.170	.052	.290	.162	.050	.274	.154	.048	.260	.147	.046	
3.0	.286	.152	.046	.278	.149	.045	.262	.142	.043	.247	.136	.042	.234	.130	.040	
4.0	.260	.135	.040	.252	.132	.039	.238	.126	.038	.225	.121	.036	.213	.116	.035	
5.0	.238	.121	.035	.231	.118	.035	.218	.114	.033	.206	.109	.032	.195	.104	.031	
6.0	.219	.110	.031	.213	.107	.031	.201	.103	.030	.190	.099	.029	.180	.095	.028	
7.0	.202	.100	.028	.197	.098	.028	.186	.094	.027	.177	.091	.026	.167	.087	.026	
8.0	.188	.092	.026	.183	.090	.025	.174	.087	.025	.165	.083	.024	.156	.080	.023	
9.0	.176	.085	.024	.171	.083	.023	.163	.080	.023	.154	.077	.022	.147	.074	.022	
10.0	.165	.079	.022	.161	.078	.022	.153	.075	.021	.145	.072	.020	.138	.069	.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	.230	.230	.230	.157	.157	.157	.090	.090	.090	.029	.029	.029	
1.0	.263	.236	.211	.225	.202	.181	.154	.139	.125	.089	.080	.073	.028	.026	.024	
2.0	.256	.212	.175	.219	.183	.152	.150	.126	.106	.087	.074	.062	.028	.024	.020	
3.0	.248	.195	.153	.213	.168	.133	.146	.117	.093	.084	.068	.055	.027	.022	.018	
4.0	.241	.182	.138	.206	.158	.120	.142	.110	.084	.082	.064	.050	.026	.021	.016	
5.0	.233	.172	.128	.200	.149	.111	.138	.104	.078	.080	.061	.046	.026	.020	.015	
6.0	.226	.164	.120	.194	.142	.105	.134	.100	.074	.078	.059	.044	.025	.019	.015	
7.0	.219	.158	.115	.188	.137	.100	.130	.096	.071	.076	.056	.042	.024	.018	.014	
8.0	.212	.152	.110	.183	.132	.096	.126	.092	.068	.073	.055	.041	.024	.018	.013	
9.0	.206	.147	.107	.177	.128	.094	.123	.090	.066	.072	.053	.040	.023	.017	.013	
10.0	.200	.143	.105	.172	.124	.091	.120	.087	.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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm										
NAME: ASD-LFMDR-14D21CC-BZ/BN 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	16.8	18.3	17.2	18.6	19.1	16.5	18.0	16.9	18.3	18.8
3H	18.8	20.1	19.2	20.5	21.0	18.4	19.7	18.8	20.1	20.6
4H	19.7	21.0	20.2	21.4	21.9	19.3	20.5	19.7	21.0	21.4
6H	20.7	21.9	21.2	22.4	22.9	20.2	21.4	20.7	21.8	22.3
8H	21.2	22.4	21.7	22.9	23.4	20.7	21.8	21.2	22.3	22.8
12H	21.8	22.9	22.3	23.4	24.0	21.3	22.4	21.8	22.8	23.4
4H 2H	17.5	18.7	17.9	19.2	19.6	17.2	18.5	17.7	18.9	19.4
3H	19.6	20.7	20.1	21.2	21.7	19.3	20.4	19.8	20.9	21.4
4H	20.7	21.7	21.3	22.2	22.8	20.3	21.4	20.9	21.9	22.4
6H	21.9	22.8	22.5	23.3	23.9	21.5	22.4	22.0	22.9	23.5
8H	22.5	23.4	23.1	23.9	24.5	22.1	22.9	22.6	23.5	24.1
12H	23.3	24.1	23.9	24.6	25.2	22.8	23.5	23.3	24.1	24.7
8H 4H	21.1	22.0	21.7	22.5	23.1	20.8	21.7	21.4	22.2	22.8
6H	22.6	23.3	23.2	23.9	24.5	22.2	22.9	22.8	23.5	24.1
8H	23.4	24.0	24.0	24.6	25.3	23.0	23.6	23.6	24.2	24.9
12H	24.3	24.9	25.0	25.5	26.2	23.9	24.4	24.5	25.0	25.7
12H 4H	21.2	22.0	21.8	22.5	23.2	20.9	21.7	21.5	22.2	22.9
6H	22.7	23.4	23.3	24.0	24.6	22.4	23.0	23.0	23.6	24.3
8H	23.6	24.2	24.3	24.8	25.5	23.3	23.8	23.9	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 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1252 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.8)

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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

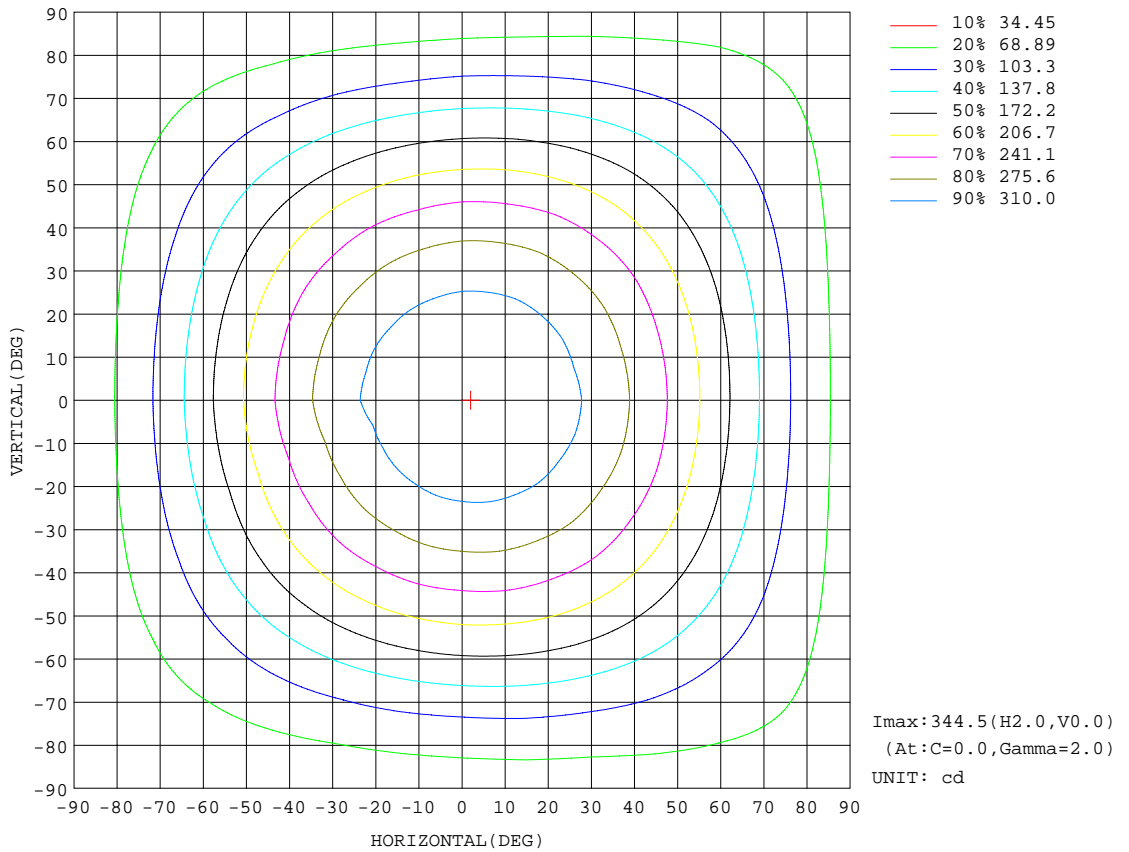
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	39	32	49	39	32	25
0.80	61	49	41	60	48	41	58	47	40	33
1.00	69	57	49	68	56	49	65	57	48	40
1.25	76	65	57	74	64	56	71	61	55	46
1.50	81	70	62	79	69	61	75	66	60	51
2.00	89	78	71	86	77	70	81	74	67	57
2.50	93	84	76	90	82	75	85	78	72	61
3.00	96	88	81	93	86	80	88	82	76	65
4.00	101	94	88	97	91	86	91	86	82	70
5.00	103	97	92	100	95	90	94	89	86	73
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

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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

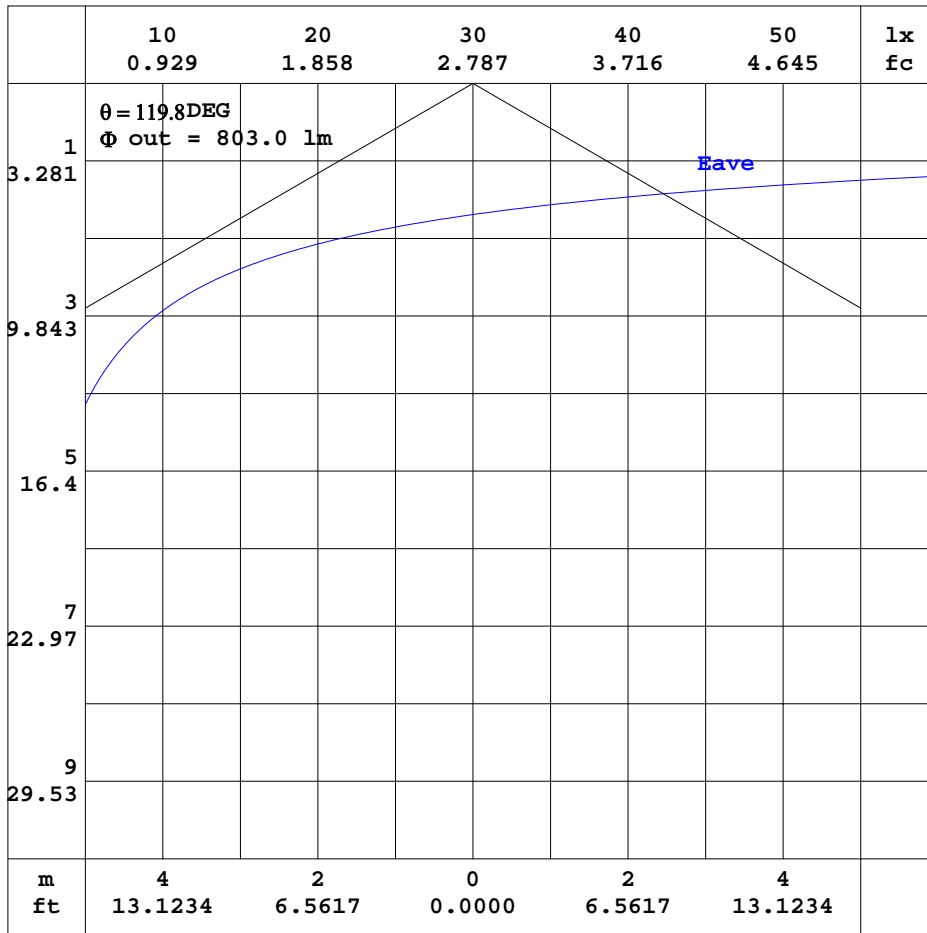


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-06

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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



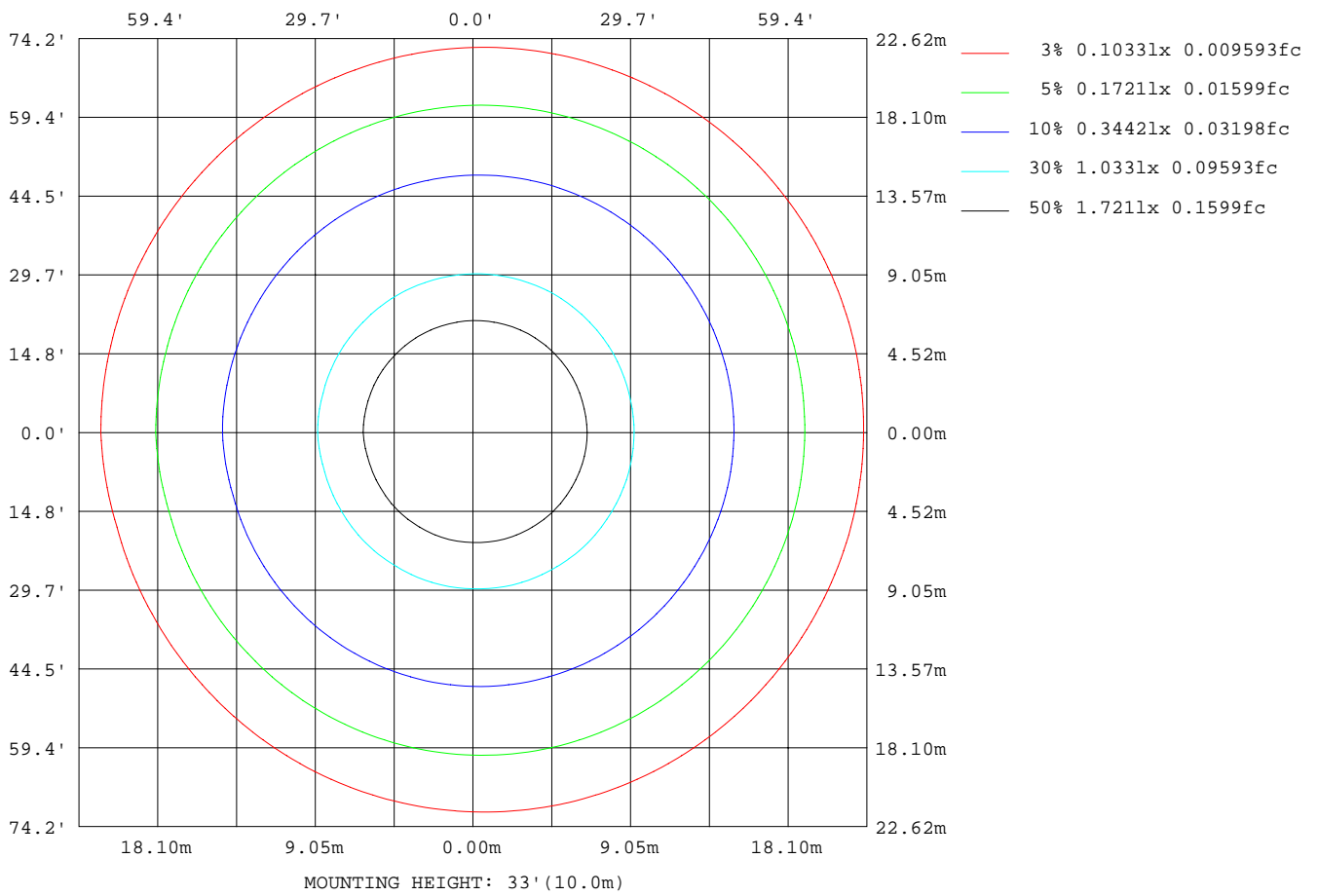
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

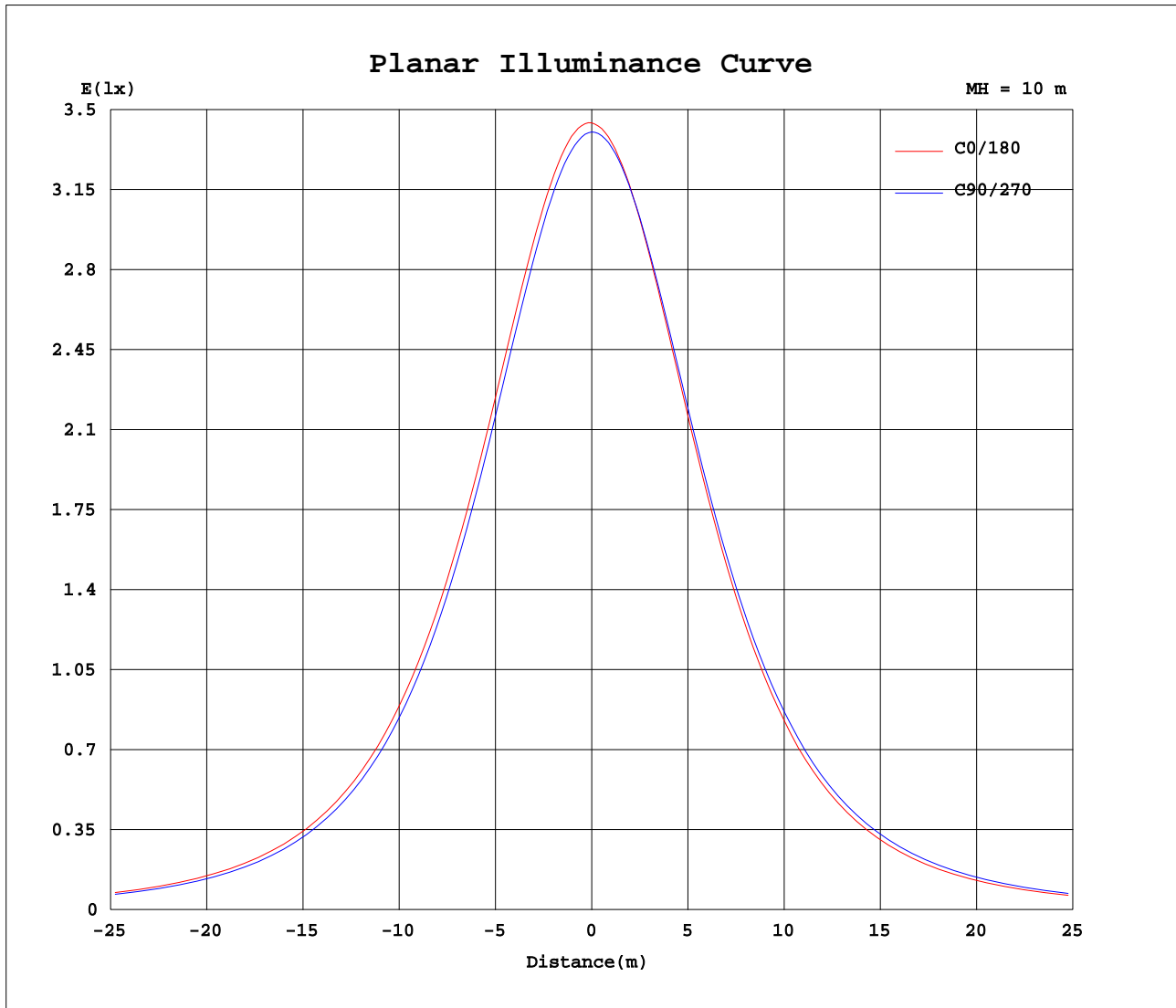
AvgL	cd/m2
L_0~180(65)av	3464
L_0~180(75)av	3826
L_0~180(85)av	7177
L_90~270(65)av	3485
L_90~270(75)av	3881
L_90~270(85)av	7316
L_45(65)av	3443
L_45(75)av	3804
L_45(85)av	7149

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

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: 2022-04-06

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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 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	344	343	342	341	341	340	340	340	340	340	340	340	344	343	342	341	341	340	340	
5	344	343	341	341	340	339	338	338	337	337	337	337	342	341	340	339	339	339	339	
10	341	340	338	337	336	335	334	333	332	332	332	332	337	336	335	335	335	335	336	
15	336	334	333	332	330	329	327	326	325	324	324	324	329	328	328	328	329	329	330	
20	328	326	324	323	321	320	318	317	315	314	313	313	319	318	318	318	319	320	322	
25	317	316	313	312	310	308	306	304	302	302	300	301	306	305	306	306	308	309	311	
30	304	303	300	299	296	295	292	290	288	287	285	286	291	290	291	292	294	295	297	
35	289	288	285	283	281	279	276	274	271	270	268	269	274	274	275	275	277	279	282	
40	272	270	267	266	263	261	257	255	252	251	249	250	255	254	256	256	259	261	265	
45	252	251	248	246	243	241	238	235	232	230	228	227	234	233	235	236	239	241	245	
50	231	229	227	224	222	219	216	212	209	206	205	205	210	210	211	213	216	220	223	
55	207	206	203	201	199	196	192	189	185	182	181	180	186	186	187	190	193	196	199	
60	183	181	179	177	175	172	168	165	161	158	156	155	160	161	162	165	168	172	175	
65	158	156	154	152	150	147	144	140	136	133	131	130	135	135	137	139	143	147	151	
70	133	131	129	127	125	123	119	116	111	109	107	107	111	111	113	115	119	123	126	
75	109	108	105	104	102	100	96.9	94.2	90.3	87.9	85.8	86.0	89.5	89.4	91.5	92.7	96.8	99.6	104	
80	87.9	87.3	85.0	83.8	81.8	81.0	78.4	75.7	72.1	70.0	68.1	68.1	70.9	70.7	72.5	73.5	77.1	80.0	83.6	
85	70.2	69.8	67.9	66.8	64.8	64.7	62.6	60.3	56.6	54.9	53.2	52.9	54.9	54.7	56.0	57.0	59.7	62.1	64.9	
90	55.2	55.0	53.6	52.7	51.0	49.8	47.3	46.0	43.5	42.2	40.6	40.3	41.7	41.2	42.2	42.9	45.1	47.0	49.7	
95	42.2	42.4	41.5	41.1	39.6	38.7	36.5	34.9	33.6	32.6	31.5	31.0	31.8	31.7	32.0	32.4	34.0	35.2	37.8	
100	32.8	33.0	32.9	32.6	31.1	27.6	25.4	23.1	22.8	22.8	24.3	27.0	26.0	25.5	25.9	26.3	26.6	26.7	25.9	28.0
105	27.8	27.9	27.9	27.6	25.4	23.1	22.8	22.8	24.3	25.4	25.2	24.6	25.1	25.0	25.5	25.5	24.1	22.9	22.5	
110	26.3	25.8	26.4	26.2	23.5	21.8	22.7	22.7	23.6	25.3	24.9	24.1	24.9	24.7	25.1	25.0	23.4	22.6	22.3	
115	24.6	23.7	24.7	24.5	21.6	20.9	22.0	22.0	22.7	24.1	23.8	23.0	24.3	23.5	24.1	23.7	22.3	21.5	21.6	
120	22.6	21.3	22.4	21.8	19.5	19.6	20.4	20.3	20.9	22.0	21.7	21.2	22.8	21.7	22.1	21.5	20.1	19.6	19.8	
125	20.2	18.2	19.3	18.5	16.6	17.3	18.3	18.3	18.6	19.2	19.4	19.3	20.9	20.0	20.0	18.9	17.6	17.5	17.7	
130	17.7	15.8	16.1	15.2	13.9	15.2	16.3	16.2	16.4	16.9	17.0	17.1	18.6	17.7	17.6	16.5	15.3	15.5	15.6	
135	15.7	14.3	13.6	12.5	11.9	13.6	14.2	13.7	13.9	14.3	14.3	15.1	16.2	15.3	15.2	14.4	13.3	13.1	13.5	
140	13.9	13.0	11.8	10.8	10.7	12.0	12.2	11.4	11.2	11.6	11.9	13.3	14.2	13.1	12.7	12.2	11.3	10.9	11.4	
145	11.9	11.4	10.1	9.48	9.29	10.1	10.3	9.44	8.98	9.29	9.96	11.2	11.9	10.9	10.2	9.71	9.45	9.00	9.56	
150	9.85	9.46	8.37	7.68	7.57	8.49	8.40	7.80	7.39	7.57	8.06	8.95	9.40	8.75	8.14	7.68	7.76	7.47	7.93	
155	7.61	7.36	6.75	6.38	6.43	6.91	6.79	6.40	6.09	6.28	6.55	6.97	7.39	7.07	6.73	6.41	6.49	6.33	6.63	
160	5.95	5.76	5.51	5.43	5.53	5.74	5.63	5.55	5.38	5.46	5.62	5.84	6.15	5.97	5.80	5.50	5.61	5.55	5.80	
165	5.00	4.97	4.83	4.85	4.87	4.91	4.91	4.99	5.07	5.11	5.07	5.15	5.39	5.27	5.18	5.15	5.10	5.02	5.10	
170	4.65	4.64	4.62	4.68	4.73	4.76	4.77	4.78	4.81	4.84	4.83	4.87	4.98	4.93	4.92	4.90	4.83	4.78	4.77	
175	4.73	4.71	4.69	4.68	4.67	4.66	4.66	4.67	4.68	4.69	4.71	4.73	4.84	4.76	4.74	4.71	4.71	4.69	4.69	
180	4.77	4.74	4.73	4.73	4.71	4.70	4.70	4.71	4.72	4.73	4.73	4.74	4.79	4.74	4.74	4.72	4.71	4.71	4.71	

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:0.1851A P:20.78W PF:0.9357 Lamp Flux:1654x1 lm		
NAME: ASD-LFMDR-14D21CC-BZ/BN 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	340	340	340	340	340														
5	339	340	340	340	340														
10	336	337	337	337	337														
15	331	332	332	332	332														
20	322	324	324	325	325														
25	312	313	314	315	314														
30	299	301	301	302	302														
35	284	286	287	288	287														
40	266	269	270	271	270														
45	247	250	250	252	251														
50	226	228	230	230	230														
55	203	205	207	207	208														
60	179	181	183	183	184														
65	154	156	158	159	159														
70	130	132	133	134	134														
75	106	109	109	111	110														
80	85.5	87.6	88.5	90.0	89.4														
85	66.9	69.3	70.5	71.9	71.5														
90	51.8	54.1	55.3	56.6	56.3														
95	39.6	41.5	42.3	43.3	43.2														
100	28.9	32.0	33.3	33.6	33.5														
105	22.6	25.5	27.7	28.1	28.0														
110	21.8	23.7	26.4	26.5	26.3														
115	20.4	22.0	24.7	24.8	24.4														
120	18.6	19.5	21.9	22.0	22.0														
125	16.3	16.7	18.6	18.9	18.7														
130	14.1	14.1	15.5	15.3	15.8														
135	12.1	11.9	12.9	13.1	13.2														
140	10.5	10.2	11.0	11.8	12.4														
145	9.14	8.95	9.61	10.6	10.9														
150	7.67	7.71	8.18	9.11	9.76														
155	6.57	6.20	6.48	7.19	7.79														
160	5.79	5.61	5.52	5.82	6.04														
165	5.13	5.07	5.00	4.96	5.04														
170	4.75	4.71	4.67	4.66	4.69														
175	4.69	4.69	4.70	4.71	4.73														
180	4.71	4.72	4.73	4.73	4.73														

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: