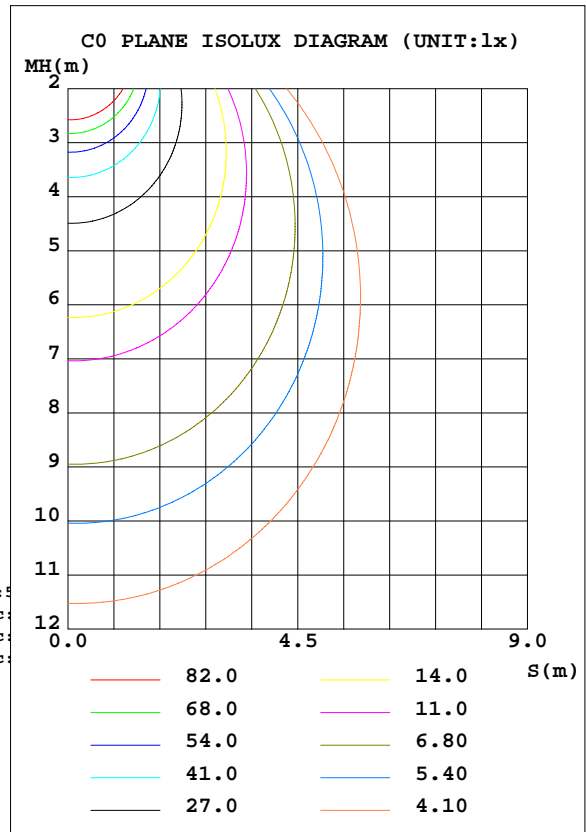
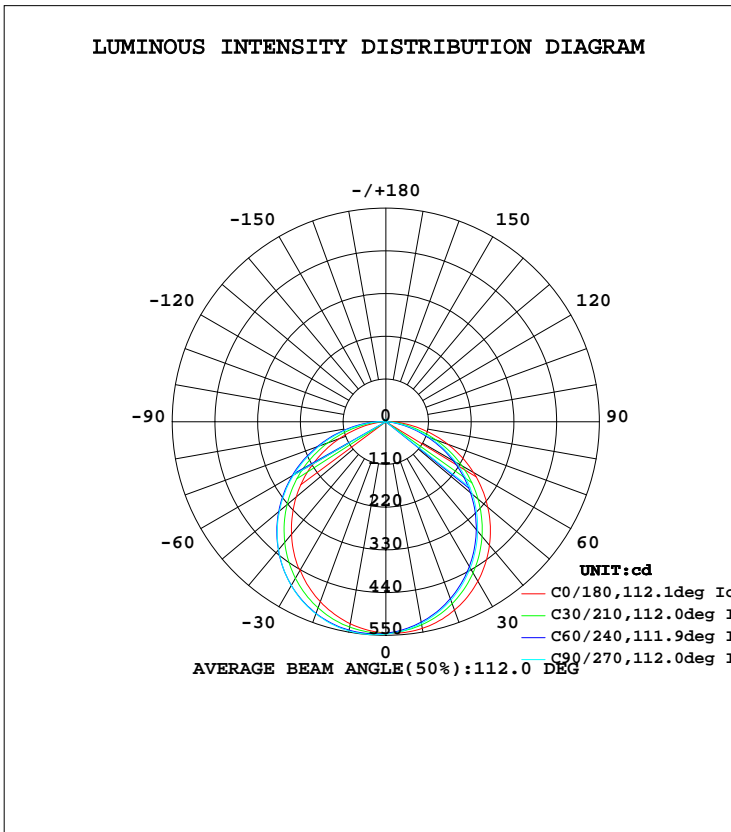


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.95 lm/W			
MODEL	ASD-MPR-121D24CC-WH/BK	I _{max} (cd)	549.6	S/MH(C0/180)	1.22
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2028	η UP, DN(C0-180)	1.0,47.2
NOMINAL FLUX(lm)	2028	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.1,50.7
LAMPS INSIDE	1	η up(%)	2.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	97.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-13

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	540.3	527.2	526.9	536.3	528.1	541.9	547.0	538.4	0- 10	51.65	51.65	3.24,3.24
20	516.5	490.7	488.9	506.4	493.2	519.6	526.3	509.6	10- 20	147.8	199.4	12.5,12.5
30	473.9	437.7	434.8	459.5	441.5	478.6	487.2	462.3	20- 30	223.6	423.0	26.5,26.5
40	415.3	371.6	368.1	398.6	378.0	420.8	430.1	399.0	30- 40	269.2	692.2	43.4,43.4
50	343.0	294.6	291.5	326.1	301.3	349.5	358.1	322.1	40- 50	278.9	971.1	60.9,60.9
60	260.1	209.0	207.6	245.6	216.0	267.5	274.7	235.1	50- 60	252.2	1223	76.7,76.7
70	170.4	121.0	121.0	158.9	127.2	178.1	181.6	141.5	60- 70	192.8	1416	88.7,88.7
80	80.33	42.01	42.88	75.06	46.79	86.86	88.75	53.24	70- 80	111.7	1528	95.7,95.7
90	12.00	4.283	4.336	11.54	4.957	16.02	15.60	4.833	80- 90	34.62	1562	97.9,97.9
100	4.309	4.433	4.525	4.425	5.111	4.991	4.949	5.003	90-100	5.564	1568	98.3,98.3
110	4.490	4.618	4.756	4.641	5.284	5.134	5.138	5.203	100-110	5.091	1573	98.6,98.6
120	4.675	4.810	4.976	4.880	5.454	5.292	5.334	5.388	110-120	4.967	1578	98.9,98.9
130	4.898	5.057	5.249	5.126	5.631	5.426	5.512	5.565	120-130	4.662	1583	99.2,99.2
140	5.176	5.369	5.591	5.450	5.847	5.619	5.712	5.784	130-140	4.205	1587	99.5,99.5
150	5.526	5.719	5.942	5.820	6.066	5.823	5.931	6.019	140-150	3.582	1590	99.7,99.7
160	5.908	6.085	6.281	6.189	6.293	6.066	6.189	6.274	150-160	2.777	1593	99.8,99.8
170	6.258	6.393	6.547	6.501	6.501	6.335	6.436	6.512	160-170	1.784	1595	100,100
180	6.501	6.516	6.616	6.659	6.601	6.513	6.613	6.670	170-180	0.6210	1596	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

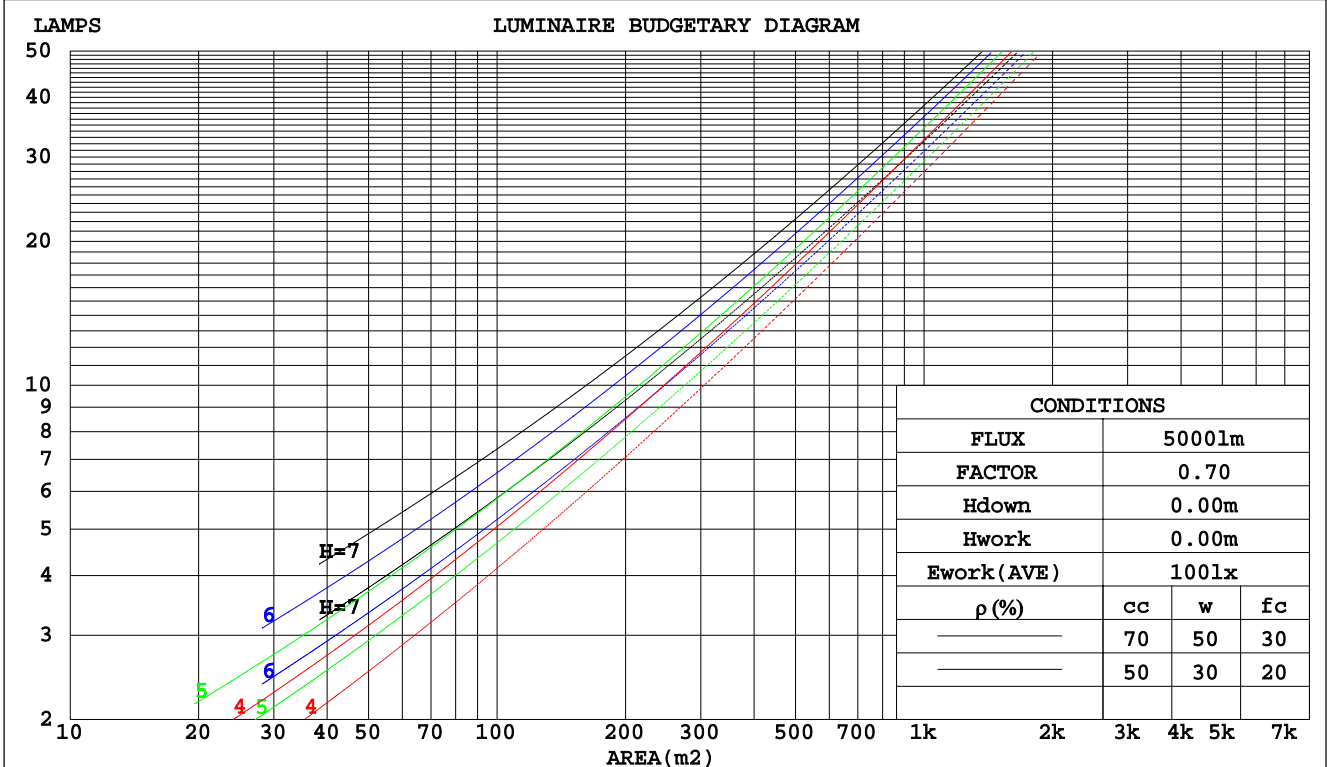
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/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	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.71	.64	.77	.69	.63	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.54	.65	.58	.53	.63	.57	.52	.60	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.45	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.41	.36	.48	.41	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/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	.313	.178	.056	.305	.174	.055	.291	.167	.053	.277	.160	.051	.265	.154	.050	
2.0	.293	.161	.049	.286	.158	.049	.273	.152	.047	.261	.147	.046	.251	.142	.045	
3.0	.270	.144	.043	.264	.142	.043	.253	.137	.042	.243	.133	.041	.233	.129	.040	
4.0	.249	.130	.038	.244	.128	.038	.234	.124	.037	.224	.121	.036	.216	.117	.036	
5.0	.230	.117	.034	.226	.116	.034	.216	.113	.033	.208	.110	.033	.200	.107	.032	
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.194	.101	.030	.186	.098	.029	
7.0	.199	.098	.028	.195	.097	.028	.188	.095	.027	.181	.093	.027	.174	.091	.027	
8.0	.185	.091	.025	.182	.090	.025	.175	.088	.025	.169	.086	.025	.164	.084	.024	
9.0	.174	.084	.023	.171	.083	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.145	.073	.021	

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	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.197	.172	.150	.168	.148	.129	.115	.102	.089	.066	.059	.052	.021	.019	.017	
2.0	.189	.148	.114	.161	.127	.099	.111	.088	.069	.064	.051	.040	.020	.017	.013	
3.0	.181	.131	.090	.155	.113	.078	.106	.078	.055	.061	.046	.032	.020	.015	.011	
4.0	.173	.117	.075	.149	.101	.065	.102	.071	.046	.059	.041	.027	.019	.013	.009	
5.0	.166	.107	.064	.142	.093	.055	.098	.065	.039	.057	.038	.023	.018	.012	.008	
6.0	.159	.099	.056	.136	.085	.048	.094	.060	.034	.055	.035	.020	.018	.011	.007	
7.0	.152	.092	.050	.131	.080	.043	.090	.056	.031	.052	.033	.018	.017	.011	.006	
8.0	.145	.086	.045	.125	.075	.039	.087	.052	.028	.050	.031	.017	.016	.010	.006	
9.0	.139	.081	.042	.120	.070	.036	.083	.049	.026	.048	.029	.015	.016	.010	.005	
10.0	.134	.077	.039	.115	.067	.034	.080	.047	.024	.047	.028	.014	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm										
NAME: ASD-MPR-12D24CC-WH/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	18.3	19.8	18.6	20.0	20.3	17.2	18.7	17.5	19.0	19.2
3H	20.0	21.3	20.3	21.6	21.9	18.5	19.9	18.8	20.2	20.4
4H	20.7	22.0	21.0	22.3	22.6	18.9	20.3	19.3	20.5	20.8
6H	21.2	22.4	21.6	22.8	23.1	19.2	20.4	19.6	20.7	21.1
8H	21.4	22.6	21.8	22.9	23.3	19.3	20.4	19.6	20.8	21.1
12H	21.6	22.7	22.0	23.1	23.4	19.3	20.4	19.6	20.7	21.1
4H 2H	18.7	20.0	19.0	20.3	20.6	17.9	19.2	18.2	19.5	19.8
3H	20.5	21.7	20.9	22.0	22.3	19.2	20.4	19.6	20.7	21.1
4H	21.3	22.4	21.7	22.7	23.1	19.8	20.8	20.2	21.2	21.5
6H	22.0	22.9	22.4	23.3	23.7	20.1	21.0	20.5	21.4	21.8
8H	22.3	23.1	22.7	23.5	24.0	20.1	21.0	20.6	21.4	21.9
12H	22.5	23.3	23.0	23.7	24.2	20.2	21.0	20.6	21.4	21.8
8H 4H	21.4	22.3	21.9	22.7	23.1	20.0	20.9	20.4	21.3	21.7
6H	22.2	22.9	22.7	23.4	23.8	20.4	21.1	20.9	21.6	22.0
8H	22.6	23.2	23.1	23.7	24.2	20.5	21.1	21.0	21.6	22.1
12H	22.9	23.4	23.4	23.9	24.4	20.5	21.1	21.1	21.6	22.1
12H 4H	21.4	22.2	21.9	22.6	23.1	20.0	20.8	20.5	21.2	21.7
6H	22.2	22.8	22.7	23.3	23.8	20.4	21.1	20.9	21.5	22.0
8H	22.6	23.1	23.1	23.6	24.1	20.6	21.1	21.1	21.6	22.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3				

CIE Pub.117 Corrected 1596 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:2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

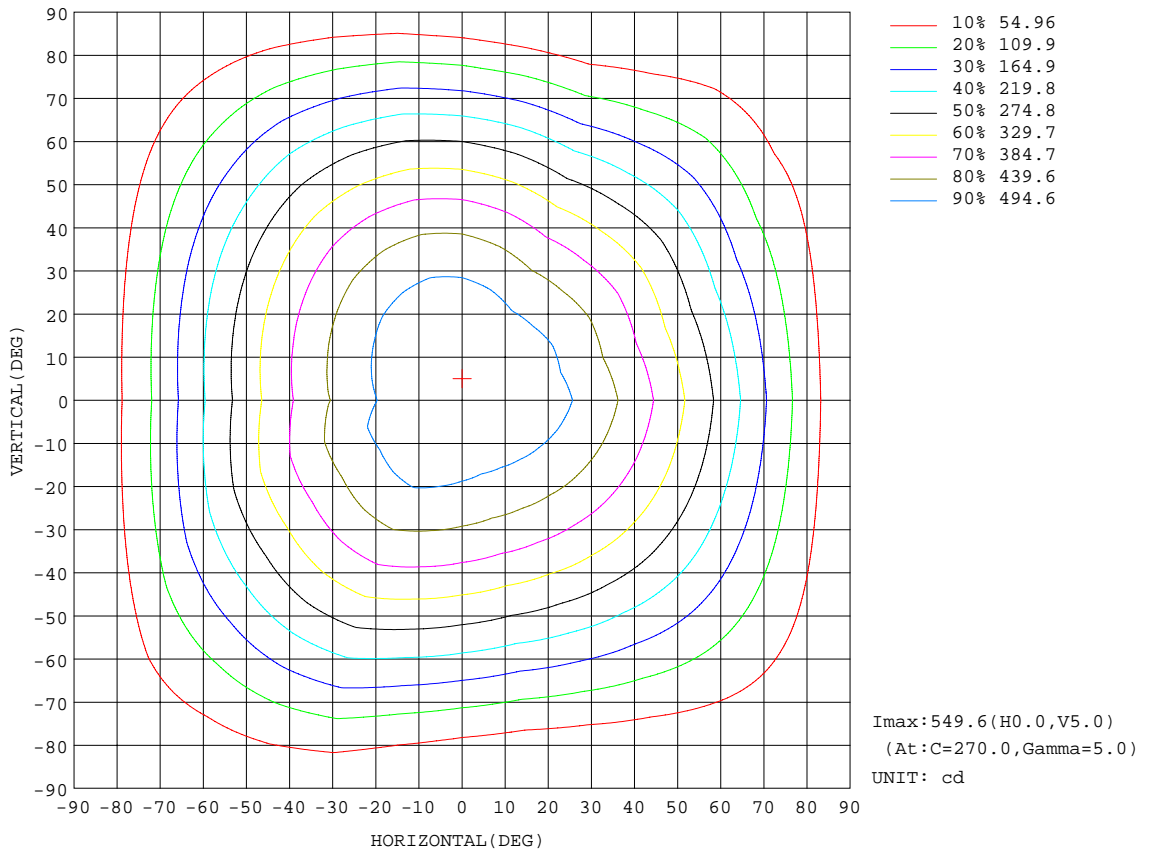
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	71	64	56	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	101	94	89	99	93	88	95	89	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	100	97	94	84
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:2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

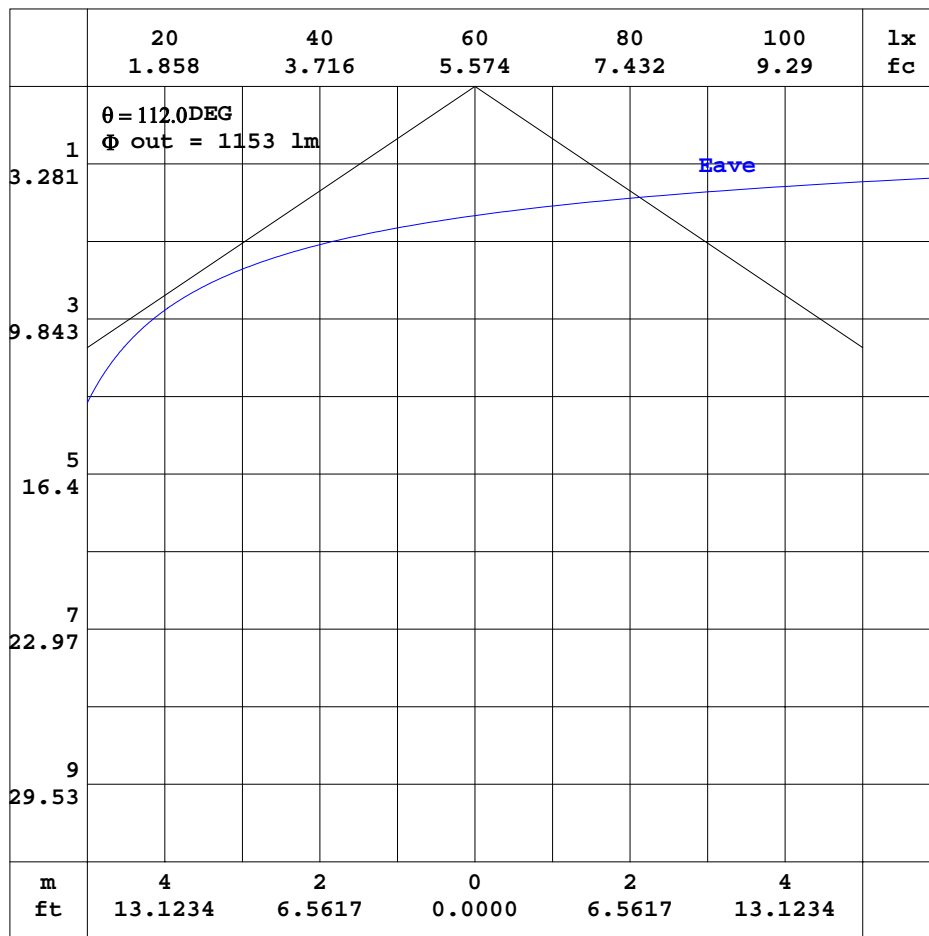


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



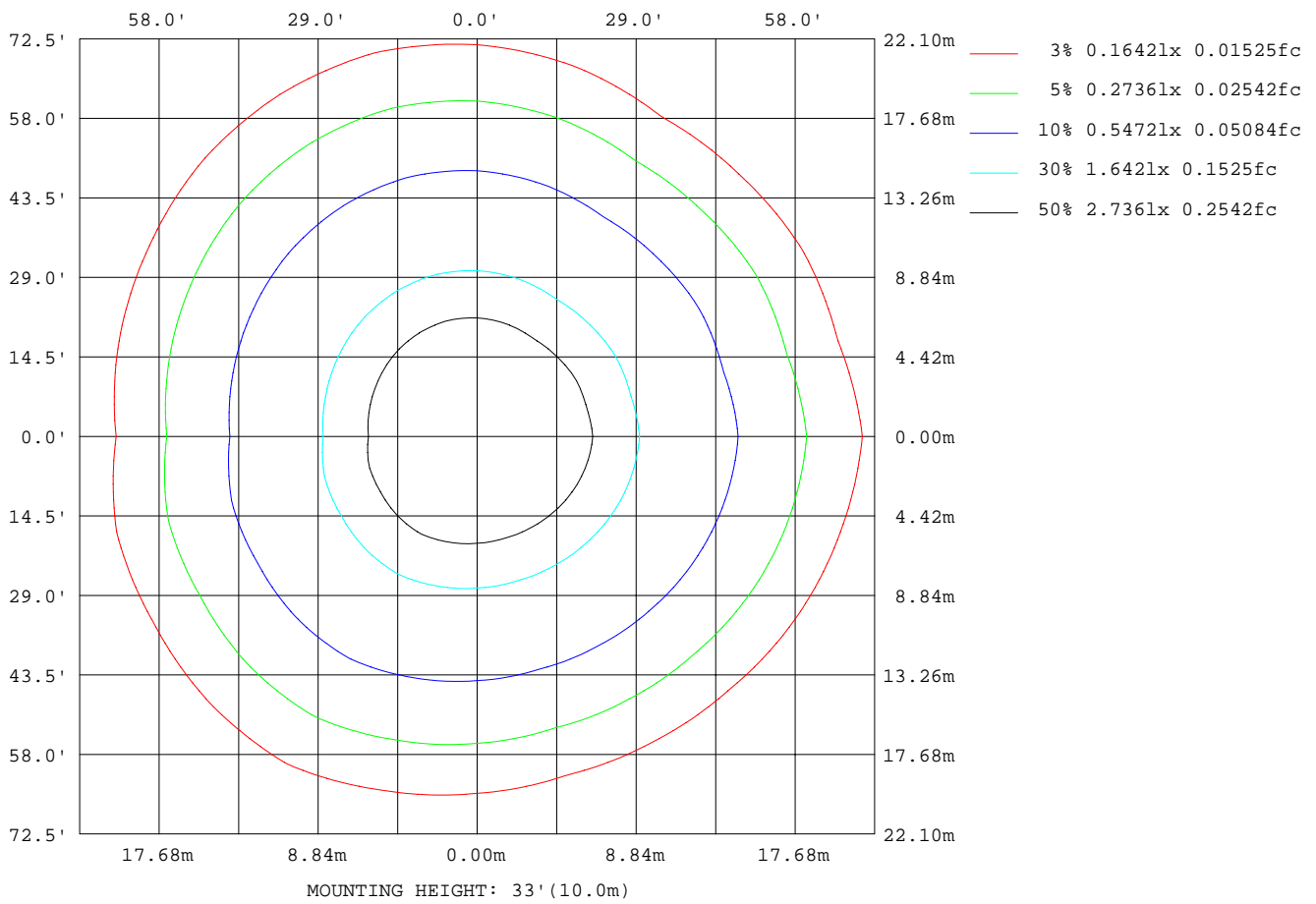
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/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:2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/BK 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

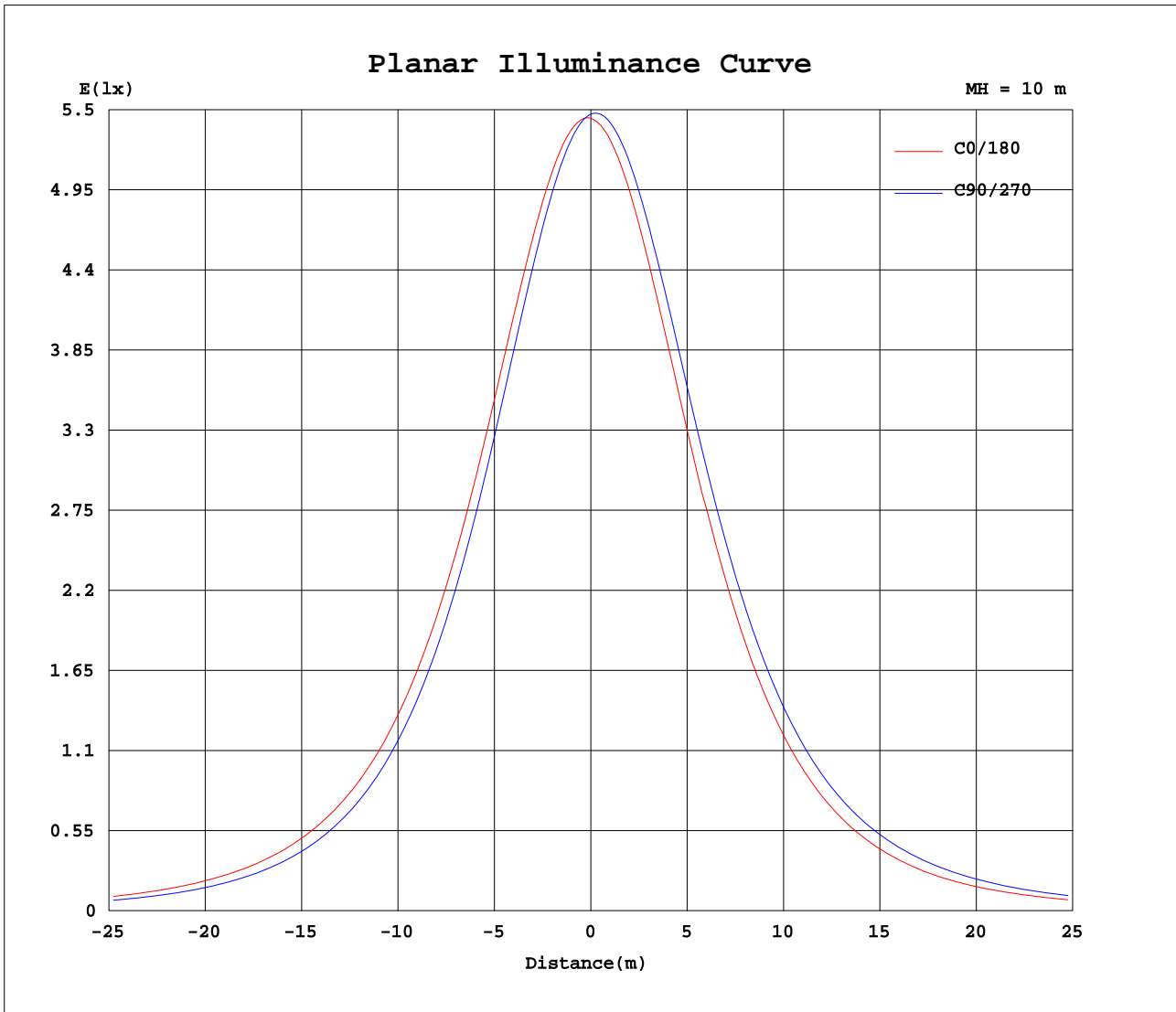
AvgL	cd/m2
L_0~180(65)av	4590
L_0~180(75)av	4044
L_0~180(85)av	3345
L_90~270(65)av	4654
L_90~270(75)av	4134
L_90~270(85)av	3556
L_45(65)av	4611
L_45(75)av	4072
L_45(85)av	3424

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-04-13

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: 2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/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	544	544	544	545	545	546	547	548	548	547	548	548	544	544	544	545	545	546	547
5	545	543	540	538	537	537	539	542	545	544	544	545	539	541	543	546	547	549	550
10	540	536	531	527	524	524	527	532	537	536	535	536	528	533	537	542	545	547	547
15	530	524	517	511	507	506	510	517	525	524	522	524	513	520	526	533	538	541	539
20	516	508	499	491	485	484	489	497	507	506	504	506	493	502	510	520	525	529	526
25	497	487	476	466	459	457	464	474	486	485	481	484	469	480	490	501	508	512	509
30	474	462	449	438	430	428	435	446	461	459	455	458	442	454	466	479	487	491	487
35	447	433	419	406	398	395	403	416	431	431	425	428	413	424	437	452	461	466	461
40	415	401	385	372	362	360	368	382	399	399	393	396	378	391	405	421	431	436	430
45	381	365	349	334	325	322	331	346	364	364	357	360	341	355	370	387	397	402	395
50	343	327	310	295	285	282	291	307	327	326	319	321	301	316	332	349	360	365	358
55	303	286	269	253	243	240	250	267	288	287	279	281	260	276	292	310	321	326	317
60	260	243	226	209	200	196	208	225	246	246	237	238	216	233	250	268	279	283	275
65	216	198	182	165	156	153	165	181	204	202	194	194	172	189	205	224	235	239	229
70	170	153	137	121	113	110	121	138	161	159	150	150	127	144	159	178	188	193	182
75	125	108	93.0	79.0	71.2	69.3	79.2	95.8	118	116	107	106	84.8	100	115	132	142	146	135
80	80.3	66.2	53.6	42.0	35.9	34.3	42.9	57.1	76.2	75.1	66.5	65.2	46.8	59.5	72.4	86.9	96.0	99.3	88.7
85	42.0	30.8	21.4	13.1	9.05	8.10	14.2	25.0	40.4	39.4	32.2	30.8	16.3	26.0	35.7	47.2	54.4	56.8	47.8
90	12.0	5.27	4.26	4.28	4.32	4.34	4.34	4.30	12.2	11.5	6.65	5.62	4.96	4.96	8.33	16.0	21.1	22.4	15.6
95	4.24	4.28	4.31	4.35	4.39	4.43	4.42	4.39	4.35	4.34	4.34	4.33	5.03	4.98	4.96	4.94	4.91	4.89	4.87
100	4.31	4.34	4.39	4.43	4.49	4.52	4.52	4.49	4.44	4.43	4.44	4.43	5.11	5.04	5.01	4.99	4.97	4.95	4.95
105	4.39	4.43	4.47	4.52	4.58	4.63	4.64	4.60	4.54	4.54	4.56	4.54	5.20	5.10	5.08	5.06	5.05	5.04	5.04
110	4.49	4.51	4.56	4.62	4.68	4.74	4.76	4.71	4.66	4.64	4.67	4.65	5.28	5.17	5.15	5.13	5.12	5.12	5.14
115	4.59	4.60	4.64	4.71	4.78	4.85	4.86	4.83	4.78	4.76	4.79	4.77	5.37	5.25	5.21	5.21	5.20	5.21	5.24
120	4.68	4.69	4.73	4.81	4.88	4.95	4.98	4.94	4.88	4.88	4.90	4.88	5.45	5.31	5.29	5.29	5.28	5.31	5.33
125	4.78	4.80	4.84	4.92	4.99	5.07	5.10	5.05	5.00	5.00	5.02	5.01	5.54	5.38	5.35	5.35	5.36	5.38	5.43
130	4.90	4.91	4.96	5.06	5.14	5.23	5.25	5.20	5.13	5.13	5.15	5.15	5.63	5.45	5.41	5.43	5.43	5.48	5.51
135	5.03	5.05	5.10	5.20	5.30	5.39	5.42	5.36	5.29	5.28	5.31	5.30	5.73	5.53	5.49	5.51	5.52	5.57	5.61
140	5.18	5.20	5.25	5.37	5.46	5.56	5.59	5.53	5.45	5.45	5.49	5.49	5.85	5.64	5.59	5.62	5.62	5.67	5.71
145	5.35	5.37	5.41	5.53	5.63	5.72	5.76	5.71	5.64	5.63	5.67	5.67	5.95	5.74	5.70	5.72	5.71	5.77	5.82
150	5.53	5.55	5.60	5.72	5.80	5.90	5.94	5.89	5.83	5.82	5.87	5.86	6.07	5.85	5.80	5.82	5.82	5.88	5.93
155	5.71	5.73	5.80	5.90	5.98	6.08	6.12	6.07	6.01	6.01	6.05	6.05	6.17	5.96	5.92	5.94	5.95	6.00	6.06
160	5.91	5.92	6.00	6.09	6.17	6.24	6.28	6.25	6.19	6.19	6.23	6.24	6.29	6.08	6.05	6.07	6.07	6.13	6.19
165	6.09	6.13	6.17	6.25	6.32	6.39	6.44	6.41	6.37	6.36	6.40	6.40	6.40	6.21	6.18	6.20	6.22	6.27	6.32
170	6.26	6.29	6.33	6.39	6.46	6.52	6.55	6.54	6.51	6.50	6.54	6.53	6.50	6.34	6.32	6.34	6.35	6.39	6.44
175	6.40	6.41	6.43	6.48	6.53	6.58	6.60	6.60	6.60	6.60	6.63	6.63	6.58	6.44	6.42	6.45	6.46	6.51	6.54
180	6.50	6.47	6.48	6.52	6.54	6.58	6.62	6.65	6.66	6.66	6.67	6.69	6.60	6.46	6.48	6.51	6.53	6.58	6.61

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-13

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:0.2049A P:22.80W PF:0.9275 Lamp Flux:2028x1 lm		
NAME: ASD-MPR-12D24CC-WH/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	548	548	547	548	548														
5	549	546	545	547	546														
10	544	539	538	540	539														
15	535	527	526	529	527														
20	520	509	510	513	510														
25	501	488	488	492	489														
30	477	462	462	467	463														
35	449	432	432	438	433														
40	417	398	399	405	400														
45	381	361	362	368	364														
50	342	321	322	329	324														
55	301	278	280	287	283														
60	257	234	235	244	239														
65	211	186	189	197	193														
70	164	138	142	150	147														
75	116	92.6	94.8	105	101														
80	71.4	51.2	53.2	61.8	59.2														
85	33.6	18.0	19.7	26.4	24.9														
90	6.24	4.83	4.83	4.81	4.88														
95	4.89	4.91	4.91	4.90	4.94														
100	4.98	5.01	5.00	4.99	5.03														
105	5.07	5.11	5.10	5.08	5.12														
110	5.18	5.21	5.20	5.19	5.21														
115	5.27	5.31	5.30	5.28	5.30														
120	5.36	5.40	5.39	5.37	5.39														
125	5.45	5.48	5.47	5.47	5.47														
130	5.54	5.58	5.57	5.57	5.57														
135	5.64	5.69	5.68	5.67	5.67														
140	5.75	5.80	5.78	5.78	5.77														
145	5.86	5.91	5.90	5.90	5.88														
150	5.98	6.03	6.02	6.02	6.00														
155	6.11	6.15	6.15	6.15	6.12														
160	6.24	6.28	6.27	6.27	6.24														
165	6.37	6.41	6.40	6.40	6.38														
170	6.48	6.52	6.51	6.52	6.50														
175	6.58	6.61	6.60	6.61	6.57														
180	6.65	6.66	6.67	6.67	6.62														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-13

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: