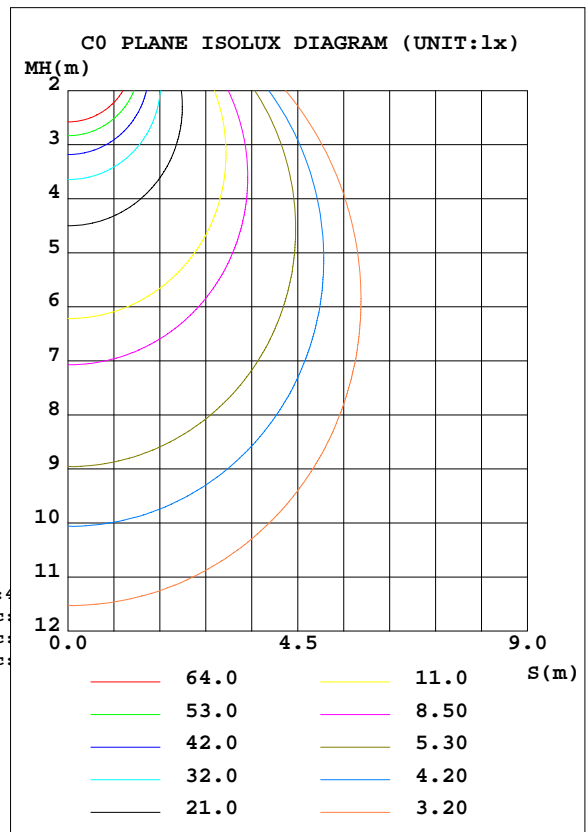
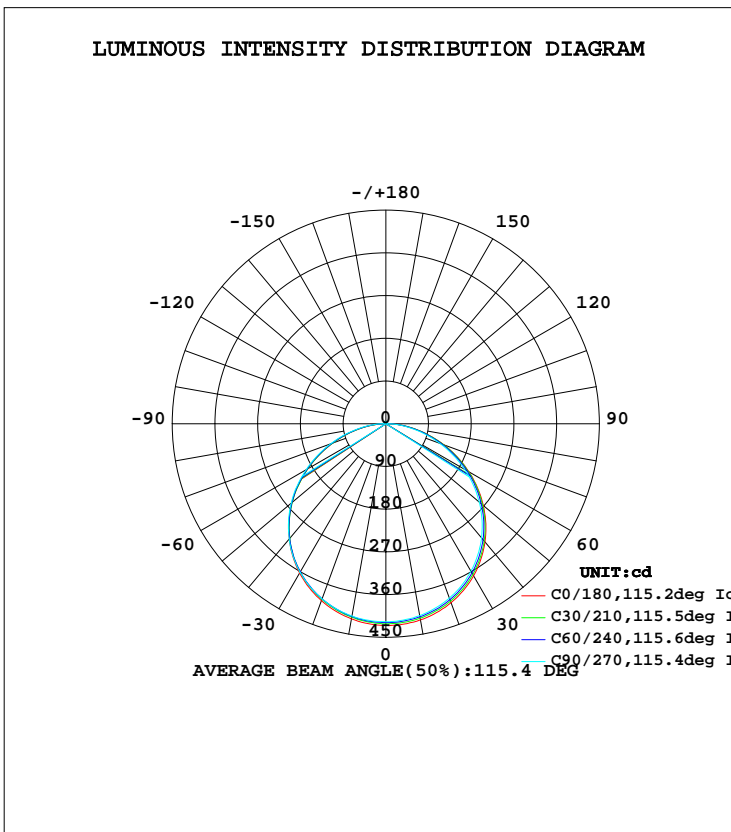


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:ASD Lighting corp.	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.59 lm/W			
MODEL	ASD-MPR-9D1830-WH	Imax(cd)	425.2	S/MH(C0/180)	1.27
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1273.9	η UP, DN(C0-180)	1.0,48.9
NOMINAL FLUX(lm)	1273.9	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.1,49.1
LAMPS INSIDE	1	η up(%)	2.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		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:2020-05-06

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	419.5	414.8	410.6	407.8	417.5	412.8	411.2	410.2	0- 10	39.63	39.63	3.11,3.11
20	401.3	396.7	391.0	387.5	396.9	393.0	392.8	392.2	10- 20	114.1	153.7	12.1,12.1
30	370.1	365.8	358.6	354.6	363.4	359.8	361.7	361.7	20- 30	174.5	328.3	25.8,25.8
40	325.0	321.7	313.9	309.2	316.7	313.9	316.9	318.0	30- 40	212.8	541.1	42.5,42.5
50	268.1	265.8	257.1	252.1	258.3	256.5	260.5	262.2	40- 50	223.0	764.0	60,60
60	202.0	199.3	191.4	185.4	190.3	190.3	194.2	197.1	50- 60	203.0	967.0	75.9,75.9
70	130.0	129.1	121.1	115.8	119.1	119.7	124.3	127.4	60- 70	156.7	1124	88.2,88.2
80	61.11	61.12	54.42	50.09	51.76	52.38	57.42	59.56	70- 80	93.46	1217	95.5,95.5
90	6.628	6.565	3.757	3.224	3.963	3.933	5.192	6.774	80- 90	30.52	1248	97.9,97.9
100	3.451	3.412	3.408	3.405	4.129	4.063	4.029	4.005	90-100	4.073	1252	98.3,98.3
110	3.662	3.620	3.616	3.609	4.302	4.232	4.202	4.175	100-110	4.042	1256	98.6,98.6
120	3.866	3.809	3.813	3.801	4.460	4.390	4.348	4.325	110-120	3.975	1260	98.9,98.9
130	4.082	4.021	4.024	4.009	4.602	4.521	4.491	4.448	120-130	3.744	1264	99.2,99.2
140	4.344	4.287	4.286	4.279	4.756	4.668	4.633	4.602	130-140	3.377	1267	99.5,99.5
150	4.633	4.579	4.575	4.560	4.903	4.822	4.784	4.749	140-150	2.873	1270	99.7,99.7
160	4.922	4.872	4.864	4.849	5.072	4.991	4.957	4.914	150-160	2.220	1272	99.8,99.8
170	5.157	5.099	5.072	5.065	5.226	5.138	5.115	5.072	160-170	1.419	1273	100,100
180	5.292	5.245	5.195	5.188	5.311	5.238	5.203	5.184	170-180	0.4918	1274	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

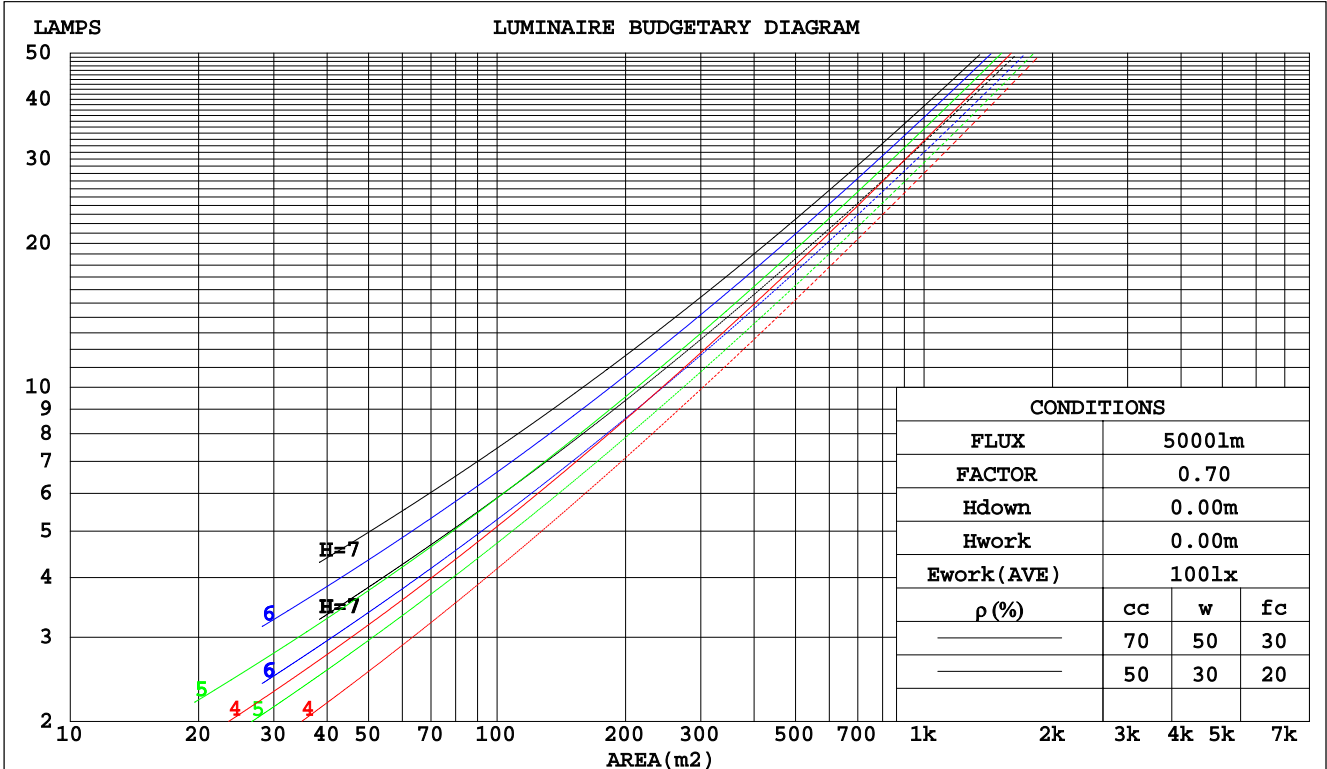
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Test Date:2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	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	1.19	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	1.00	.96	.93	.96	.93	.89	.92	.89	.86	.88	.85	.83	.81
2.0	.89	.82	.77	.87	.81	.75	.83	.78	.73	.80	.75	.71	.77	.73	.70	.67
3.0	.78	.70	.63	.77	.69	.63	.73	.67	.61	.70	.65	.60	.67	.63	.59	.56
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.62	.56	.51	.60	.55	.50	.48
5.0	.62	.53	.46	.60	.52	.46	.58	.51	.45	.56	.49	.44	.54	.48	.43	.41
6.0	.56	.46	.40	.54	.46	.40	.52	.45	.39	.51	.44	.39	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.39	.34	.44	.38	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.35	.31	.41	.35	.30	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Test Date: 2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	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	.318	.181	.057	.310	.177	.056	.296	.170	.054	.282	.163	.052	.270	.157	.050	
2.0	.297	.163	.050	.290	.160	.049	.277	.154	.048	.265	.149	.047	.254	.144	.045	
3.0	.273	.146	.044	.267	.143	.043	.256	.139	.042	.245	.134	.041	.236	.130	.040	
4.0	.252	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.218	.118	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.202	.108	.032	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.195	.101	.030	.188	.099	.029	
7.0	.200	.099	.028	.196	.098	.028	.189	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.187	.091	.026	.183	.090	.025	.177	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.175	.085	.024	.172	.084	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.146	.074	.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	.101	.089	.066	.059	.052	.021	.019	.017	
2.0	.189	.148	.113	.162	.127	.098	.111	.088	.068	.064	.051	.040	.021	.017	.013	
3.0	.181	.130	.090	.155	.112	.078	.107	.078	.055	.062	.046	.032	.020	.015	.011	
4.0	.174	.117	.074	.149	.101	.064	.102	.071	.045	.059	.041	.027	.019	.013	.009	
5.0	.166	.107	.063	.143	.092	.055	.098	.065	.039	.057	.038	.023	.018	.012	.008	
6.0	.159	.098	.055	.137	.085	.048	.094	.060	.034	.055	.035	.020	.018	.011	.007	
7.0	.152	.092	.049	.131	.079	.043	.090	.056	.030	.053	.033	.018	.017	.011	.006	
8.0	.146	.086	.045	.125	.074	.039	.087	.052	.028	.050	.031	.017	.016	.010	.005	
9.0	.139	.081	.041	.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:2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm										
NAME: ASD-MPR-9D1830-WH					TYPE:			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	18.1	19.6	19.8	17.6	19.1	17.9	19.4	19.6
3H	19.4	20.8	19.8	21.1	21.4	19.2	20.6	19.5	20.8	21.1
4H	20.1	21.4	20.5	21.7	22.0	19.8	21.1	20.2	21.4	21.7
6H	20.6	21.9	21.0	22.2	22.5	20.3	21.5	20.7	21.8	22.2
8H	20.8	22.1	21.2	22.4	22.7	20.5	21.7	20.8	22.0	22.3
12H	21.0	22.2	21.4	22.5	22.8	20.6	21.7	21.0	22.1	22.4
4H 2H	18.4	19.7	18.8	20.0	20.3	18.3	19.6	18.6	19.9	20.2
3H	20.2	21.4	20.6	21.7	22.1	20.0	21.2	20.4	21.5	21.9
4H	21.1	22.1	21.5	22.5	22.9	20.8	21.9	21.2	22.2	22.6
6H	21.7	22.7	22.2	23.1	23.5	21.4	22.4	21.8	22.7	23.2
8H	22.0	22.9	22.4	23.3	23.7	21.6	22.5	22.1	22.9	23.4
12H	22.2	23.0	22.7	23.4	23.9	21.8	22.6	22.3	23.1	23.5
8H 4H	21.3	22.2	21.8	22.6	23.1	21.1	22.0	21.6	22.4	22.8
6H	22.2	22.9	22.7	23.4	23.8	21.9	22.6	22.4	23.1	23.6
8H	22.6	23.2	23.1	23.7	24.2	22.3	22.9	22.7	23.4	23.9
12H	22.9	23.5	23.4	23.9	24.5	22.5	23.1	23.0	23.6	24.1
12H 4H	21.4	22.2	21.8	22.6	23.0	21.1	22.0	21.6	22.4	22.8
6H	22.3	22.9	22.8	23.4	23.9	22.0	22.7	22.5	23.1	23.6
8H	22.7	23.3	23.2	23.7	24.3	22.4	23.0	22.9	23.4	24.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1274 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:2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:	PROTECTION ANGLE:

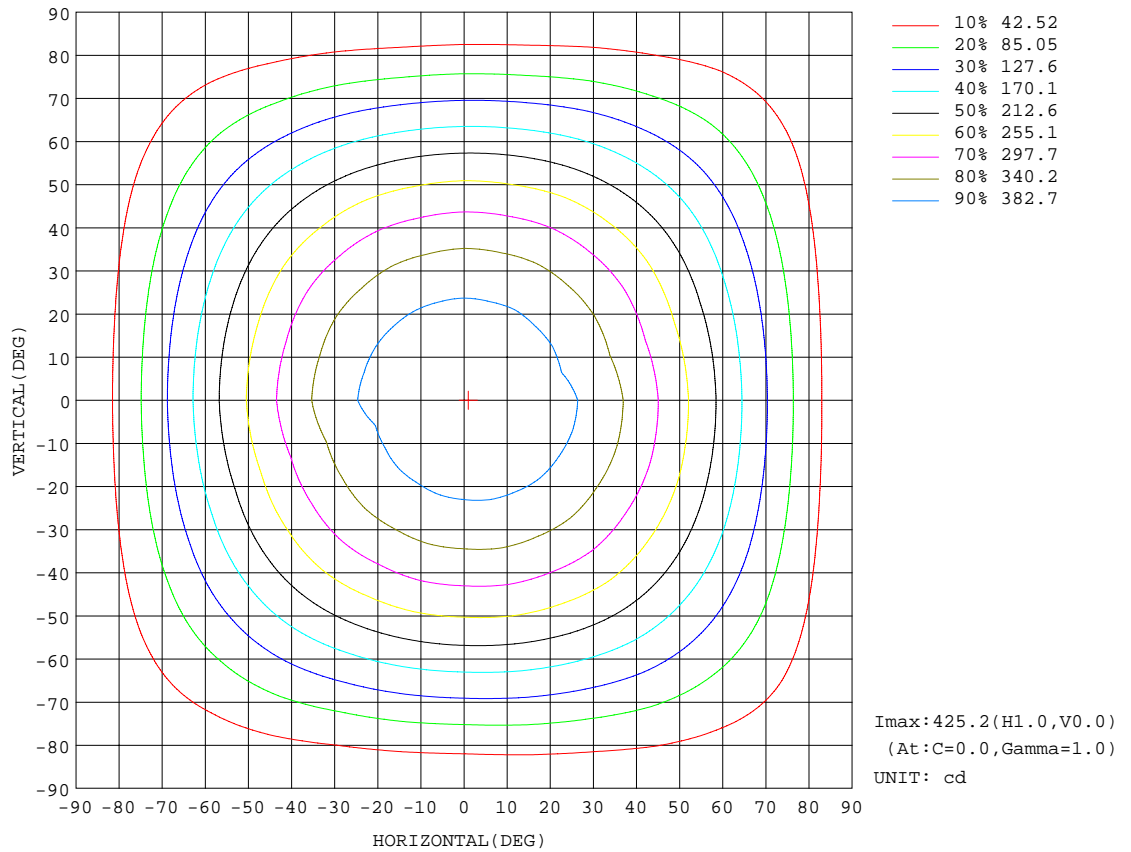
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	45	37	55	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	47
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	85	76
4.00	105	99	94	103	97	93	98	94	90	80
5.00	108	103	98	105	101	97	100	97	93	83
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:2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:	PROTECTION ANGLE:

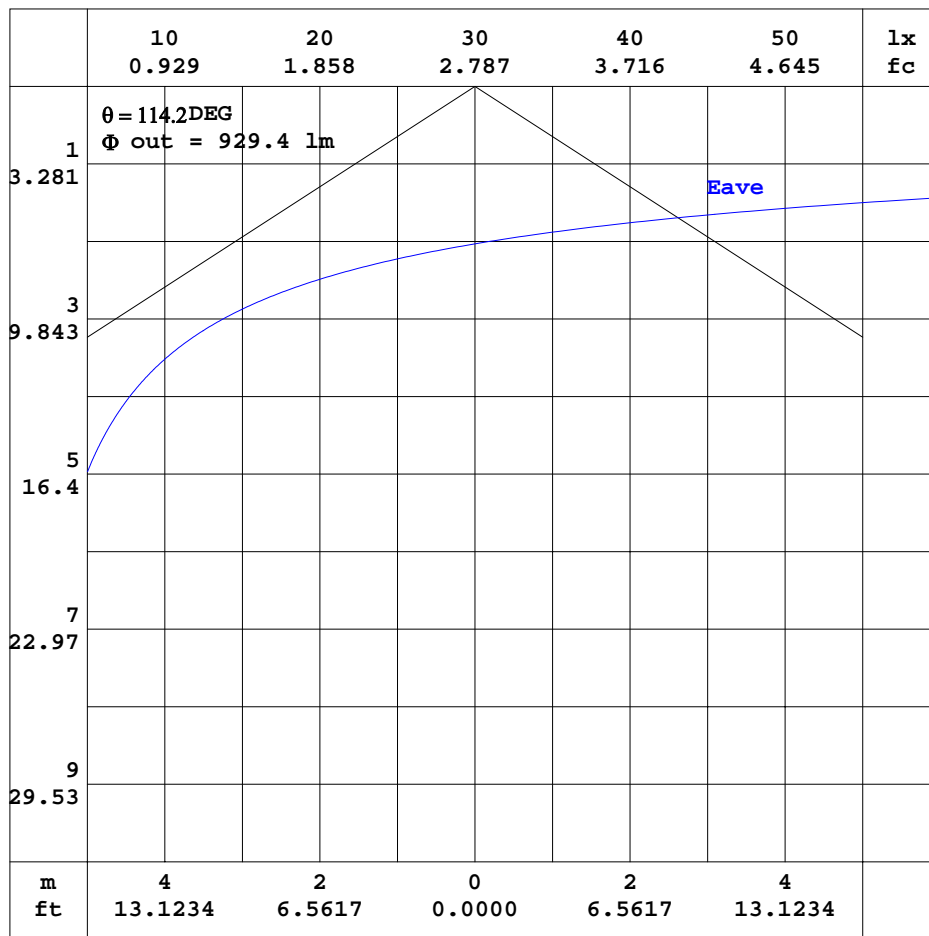


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Test
 Date: 2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:	PROTECTION ANGLE:



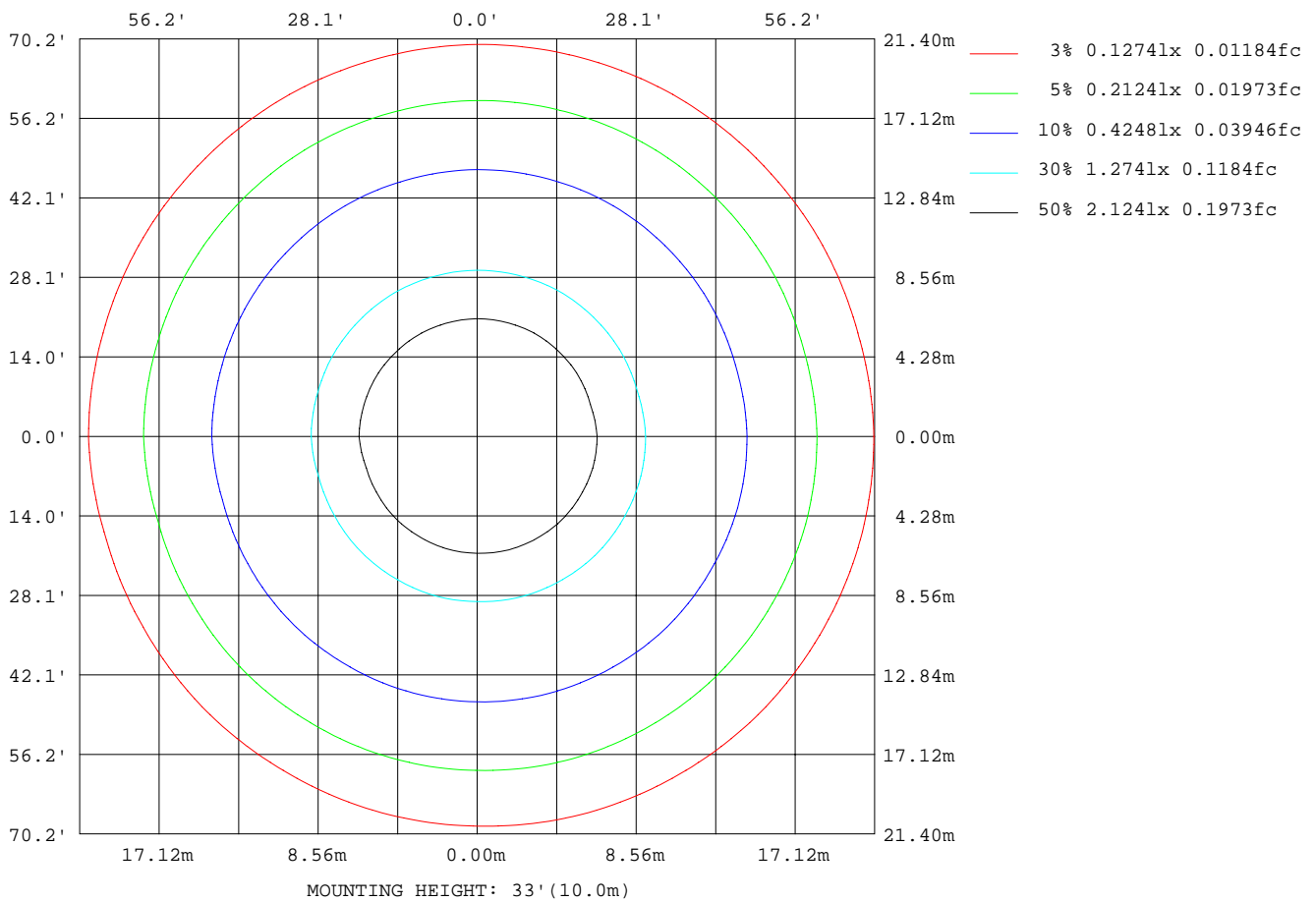
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: Test
 Date:2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	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: 2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:	PROTECTION ANGLE:

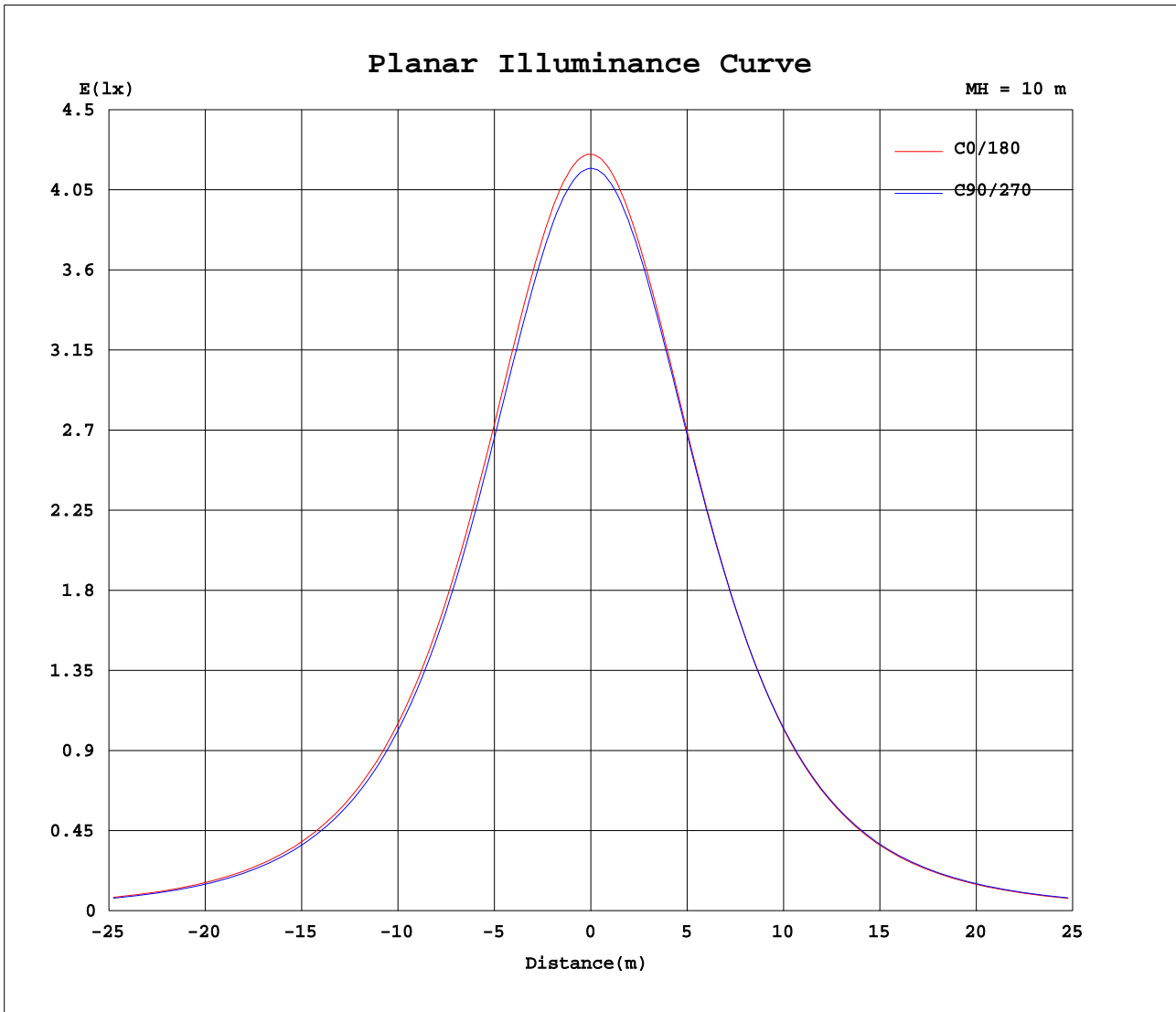
AvgL	cd/m2
L_0~180(65)av	3799
L_0~180(75)av	3445
L_0~180(85)av	3126
L_90~270(65)av	3735
L_90~270(75)av	3404
L_90~270(85)av	3124
L_45(65)av	3744
L_45(75)av	3405
L_45(85)av	3103

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: Test
 Date:2020-05-06

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: 2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	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	425	423	421	420	419	418	417	416	416	415	415	414	425	423	421	420	419	418	417
5	424	422	420	419	417	417	415	415	414	413	413	412	423	421	419	418	417	416	416
10	420	418	416	415	413	412	411	409	408	408	407	406	417	415	414	413	412	411	411
15	412	411	408	407	405	404	402	401	400	399	398	398	409	406	406	404	404	403	404
20	401	400	398	397	395	393	391	390	388	387	386	386	397	394	394	393	393	392	393
25	387	386	384	383	380	379	377	376	373	373	371	371	382	380	379	378	378	378	379
30	370	369	366	366	363	362	359	357	355	355	353	354	363	361	361	360	361	360	362
35	349	349	346	345	342	341	338	337	334	334	332	332	342	339	340	338	340	339	341
40	325	325	322	322	319	317	314	312	309	309	307	308	317	315	315	314	315	315	317
45	298	298	295	295	292	291	287	285	282	282	280	281	289	287	288	287	288	288	290
50	268	269	266	266	262	261	257	256	252	252	250	251	258	256	257	256	258	258	260
55	236	237	234	234	230	229	225	222	220	219	218	218	225	224	224	224	226	226	228
60	202	202	200	199	197	195	191	189	186	185	184	184	190	189	190	190	192	193	194
65	166	167	165	164	162	160	156	154	151	151	150	150	155	154	155	155	157	158	159
70	130	131	130	129	126	125	121	119	116	116	114	115	119	118	119	120	121	122	124
75	94.1	95.4	93.9	94.1	91.1	90.0	86.4	84.9	81.8	81.7	79.7	80.7	84.2	83.2	84.7	84.5	86.9	87.3	89.8
80	61.1	62.2	61.0	61.1	58.8	57.6	54.4	53.1	50.2	50.1	48.5	49.2	51.8	51.0	52.5	52.4	54.6	55.1	57.4
85	31.3	32.3	31.2	31.4	29.4	28.5	25.9	24.8	22.4	22.3	20.9	21.6	23.2	22.6	23.8	23.8	25.8	26.4	28.5
90	6.63	7.27	6.52	6.57	5.24	4.82	3.76	3.49	3.26	3.22	3.24	3.21	3.96	3.95	3.92	3.93	4.05	4.22	5.19
95	3.36	3.34	3.33	3.32	3.32	3.32	3.32	3.32	3.32	3.31	3.31	3.30	4.04	4.02	4.00	3.99	3.97	3.96	3.95
100	3.45	3.44	3.42	3.41	3.41	3.41	3.41	3.41	3.41	3.40	3.40	3.40	4.13	4.10	4.09	4.06	4.05	4.04	4.03
105	3.55	3.54	3.51	3.51	3.50	3.51	3.51	3.51	3.51	3.50	3.50	3.50	4.22	4.19	4.17	4.15	4.14	4.12	4.11
110	3.66	3.64	3.62	3.62	3.61	3.61	3.62	3.61	3.61	3.61	3.60	3.60	4.30	4.29	4.26	4.23	4.23	4.21	4.20
115	3.77	3.74	3.72	3.72	3.71	3.71	3.71	3.71	3.71	3.71	3.70	3.70	4.38	4.37	4.34	4.32	4.30	4.29	4.28
120	3.87	3.84	3.82	3.81	3.80	3.81	3.81	3.81	3.81	3.80	3.80	3.80	4.46	4.46	4.43	4.43	4.39	4.38	4.35
125	3.97	3.94	3.92	3.91	3.90	3.90	3.91	3.91	3.90	3.90	3.90	3.90	4.53	4.49	4.49	4.46	4.44	4.42	4.41
130	4.08	4.05	4.03	4.02	4.01	4.02	4.02	4.01	4.02	4.01	4.01	4.01	4.60	4.56	4.55	4.52	4.50	4.49	4.49
135	4.21	4.19	4.16	4.15	4.14	4.14	4.15	4.14	4.14	4.14	4.15	4.14	4.68	4.64	4.61	4.59	4.58	4.56	4.56
140	4.34	4.31	4.30	4.29	4.28	4.28	4.29	4.28	4.29	4.28	4.28	4.27	4.76	4.72	4.69	4.67	4.66	4.64	4.63
145	4.49	4.46	4.44	4.43	4.42	4.42	4.43	4.42	4.42	4.42	4.42	4.42	4.83	4.79	4.78	4.75	4.73	4.71	4.71
150	4.63	4.60	4.59	4.58	4.57	4.56	4.58	4.56	4.56	4.56	4.56	4.56	4.90	4.86	4.85	4.82	4.81	4.79	4.78
155	4.78	4.75	4.73	4.72	4.72	4.72	4.72	4.71	4.71	4.71	4.71	4.71	5.00	4.95	4.93	4.91	4.89	4.88	4.87
160	4.92	4.90	4.88	4.87	4.86	4.87	4.86	4.85	4.84	4.85	4.84	4.84	5.07	5.03	5.01	4.99	4.98	4.96	4.96
165	5.06	5.03	5.00	5.00	4.99	4.99	4.98	4.98	4.96	4.96	4.96	4.96	5.15	5.11	5.10	5.06	5.06	5.05	5.04
170	5.16	5.14	5.10	5.10	5.09	5.09	5.07	5.07	5.06	5.06	5.06	5.06	5.23	5.19	5.17	5.14	5.13	5.12	5.11
175	5.23	5.22	5.19	5.19	5.17	5.16	5.15	5.15	5.14	5.14	5.14	5.13	5.28	5.24	5.23	5.20	5.19	5.17	5.16
180	5.29	5.28	5.26	5.25	5.22	5.21	5.20	5.20	5.19	5.19	5.17	5.18	5.31	5.26	5.26	5.24	5.23	5.20	5.20

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Test
 Date: 2020-05-06

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:119.9V I:0.1605A P:18.05W PF:0.9377 Lamp Flux:1273.9x1 lm		
NAME: ASD-MPR-9D1830-WH	TYPE:	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	416	416	415	415	414														
5	415	415	414	414	413														
10	411	411	410	410	410														
15	403	403	403	403	402														
20	393	393	392	393	392														
25	379	379	379	379	378														
30	361	362	362	362	361														
35	341	342	341	343	341														
40	317	319	318	319	318														
45	290	292	292	293	291														
50	261	263	262	263	262														
55	229	231	231	232	231														
60	195	197	197	198	198														
65	161	162	163	163	163														
70	125	127	127	128	128														
75	90.2	92.6	92.2	93.8	92.9														
80	57.8	60.1	59.6	61.1	60.3														
85	29.1	31.0	30.6	31.9	31.3														
90	5.54	6.94	6.77	7.75	7.24														
95	3.94	3.93	3.93	3.91	3.92														
100	4.02	4.01	4.01	4.00	4.00														
105	4.10	4.08	4.08	4.08	4.07														
110	4.18	4.17	4.17	4.16	4.17														
115	4.27	4.25	4.25	4.24	4.25														
120	4.34	4.32	4.32	4.32	4.32														
125	4.40	4.39	4.38	4.38	4.38														
130	4.47	4.46	4.45	4.45	4.45														
135	4.54	4.52	4.53	4.53	4.53														
140	4.61	4.61	4.60	4.60	4.60														
145	4.69	4.68	4.68	4.67	4.68														
150	4.76	4.75	4.75	4.74	4.74														
155	4.86	4.84	4.83	4.83	4.83														
160	4.94	4.93	4.91	4.91	4.91														
165	5.03	5.01	5.00	5.00	5.00														
170	5.10	5.09	5.07	5.07	5.07														
175	5.15	5.15	5.14	5.14	5.13														
180	5.19	5.19	5.18	5.18	5.17														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: Test
 Date:2020-05-06

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: