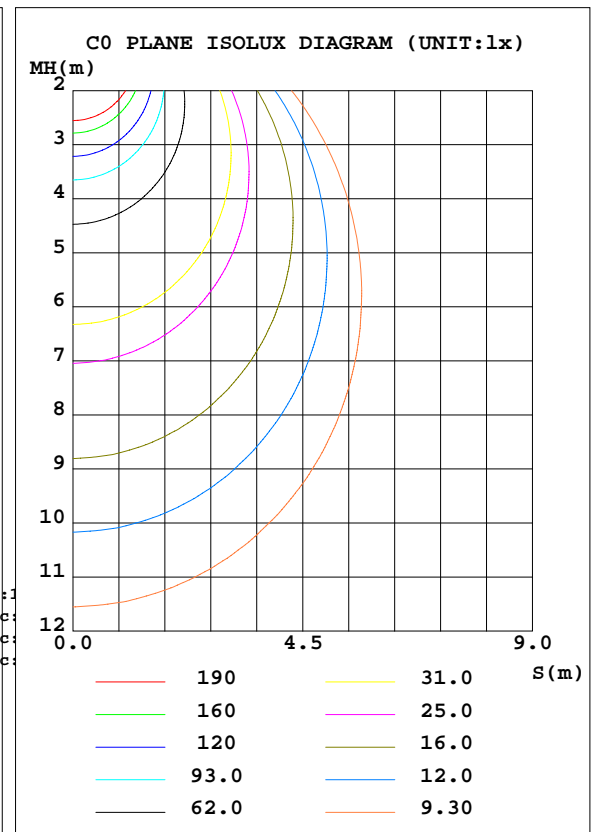
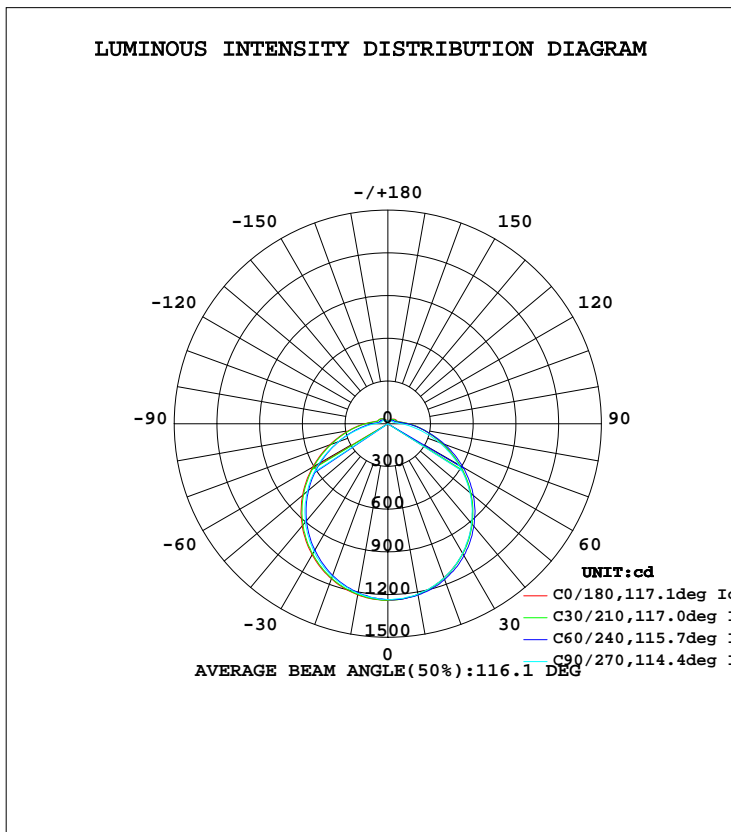


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83,3 lm/W			
MODEL	ASD-LFMOV-MV-32D45CC-NK	Imax(cd)	1241	S/MH(C0/180)	1.27
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3750	η UP, DN(C0-180)	3.8,45.9
NOMINAL FLUX(lm)	3750	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.1,46.1
LAMPS INSIDE	1	η up(%)	8.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	92.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-07

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	1217	1225	1215	1206	1220	1201	1210	1219	0- 10	116.9	116.9	2.8,2.8
20	1152	1172	1153	1138	1160	1130	1141	1161	10- 20	335.1	452.0	10.8,10.8
30	1052	1081	1050	1032	1063	1021	1036	1065	20- 30	509.1	961.1	23,23
40	917.2	955.0	914.0	893.0	935.7	884.1	899.8	934.8	30- 40	617.4	1579	37.9,37.9
50	757.5	802.4	753.0	730.0	781.6	723.6	739.2	776.4	40- 50	648.1	2227	53.4,53.4
60	580.0	628.5	571.1	549.9	609.9	546.2	558.6	601.5	50- 60	600.0	2827	67.8,67.8
70	404.3	445.9	382.4	365.1	433.2	370.2	367.3	413.2	60- 70	484.1	3311	79.4,79.4
80	257.0	282.5	209.8	207.8	281.0	225.0	199.0	246.5	70- 80	332.5	3643	87.4,87.4
90	147.4	160.5	96.85	104.5	164.1	122.6	91.85	129.3	80- 90	194.6	3838	92,92
100	81.82	85.35	49.67	58.59	93.08	71.48	51.74	66.79	90-100	102.2	3940	94.5,94.5
110	66.23	58.43	39.24	51.21	71.43	64.25	46.95	56.17	100-110	64.74	4005	96,96
120	60.53	52.36	35.53	46.05	65.45	56.73	41.98	50.93	110-120	53.95	4059	97.3,97.3
130	51.71	45.64	30.72	39.08	56.03	47.55	35.79	44.37	120-130	42.86	4102	98.4,98.4
140	41.70	36.90	26.04	31.51	45.36	37.14	29.13	37.06	130-140	30.94	4133	99.1,99.1
150	30.46	28.12	20.96	24.10	33.30	26.63	23.34	29.05	140-150	19.77	4152	99.6,99.6
160	21.85	21.35	18.53	18.73	23.62	19.92	19.16	22.18	150-160	10.96	4163	99.8,99.8
170	18.04	17.91	16.55	17.30	18.80	17.94	17.55	18.21	160-170	5.414	4169	100,100
180	16.92	16.92	16.76	16.93	16.90	16.93	16.73	16.88	170-180	1.658	4170	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

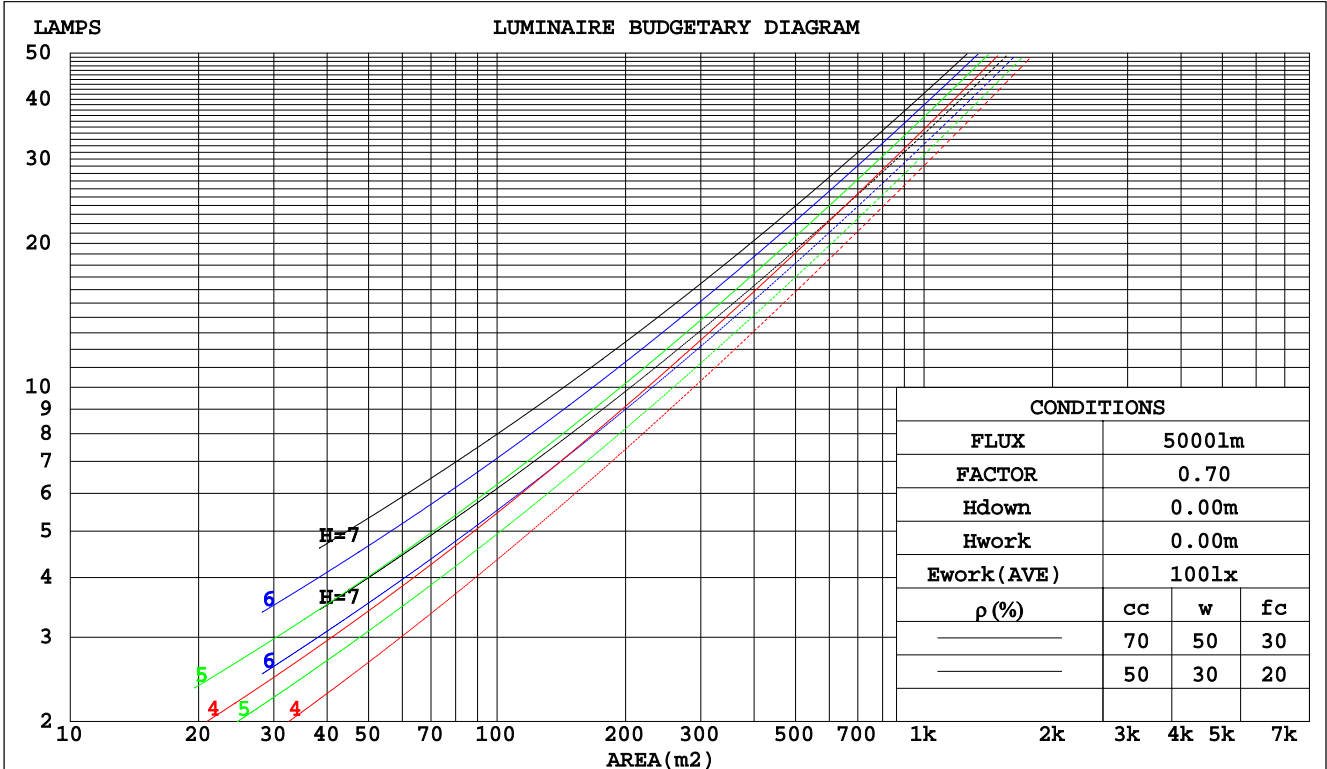
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-07

$\gamma$  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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	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	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.85	.86	.83	.80	.81	.79	.77	.74
2.0	.87	.79	.73	.84	.77	.72	.79	.74	.69	.75	.70	.66	.70	.67	.63	.61
3.0	.76	.67	.60	.73	.66	.59	.69	.63	.57	.65	.60	.55	.62	.57	.53	.51
4.0	.67	.58	.51	.65	.56	.50	.61	.54	.48	.58	.52	.47	.55	.50	.45	.43
5.0	.60	.50	.43	.58	.49	.43	.55	.47	.42	.52	.46	.40	.49	.44	.39	.37
6.0	.53	.44	.38	.52	.44	.37	.49	.42	.36	.47	.40	.35	.45	.39	.34	.32
7.0	.48	.39	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.30	.43	.35	.29	.41	.34	.29	.39	.33	.28	.37	.32	.27	.25
9.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.36	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.36	.29	.24	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-04-07

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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	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	.345	.196	.062	.335	.191	.061	.317	.182	.058	.301	.173	.056	.285	.165	.053	
2.0	.310	.170	.052	.302	.166	.051	.286	.159	.049	.271	.152	.048	.257	.145	.046	
3.0	.281	.150	.045	.274	.147	.044	.259	.140	.043	.246	.135	.041	.234	.129	.040	
4.0	.256	.133	.039	.250	.131	.039	.237	.126	.037	.225	.121	.036	.214	.116	.035	
5.0	.235	.120	.035	.229	.118	.034	.217	.113	.033	.207	.109	.032	.196	.105	.032	
6.0	.217	.109	.031	.211	.107	.031	.201	.103	.030	.191	.099	.029	.182	.096	.028	
7.0	.201	.099	.028	.196	.098	.028	.187	.094	.027	.178	.091	.027	.169	.088	.026	
8.0	.187	.091	.026	.183	.090	.025	.174	.087	.025	.166	.084	.024	.158	.081	.024	
9.0	.175	.085	.024	.171	.083	.023	.163	.081	.023	.156	.078	.022	.149	.075	.022	
10.0	.164	.079	.022	.160	.078	.022	.153	.075	.021	.146	.073	.021	.140	.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	.251	.251	.251	.215	.215	.215	.147	.147	.147	.084	.084	.084	.027	.027	.027	
1.0	.244	.217	.193	.209	.186	.166	.143	.128	.115	.082	.074	.067	.026	.024	.022	
2.0	.236	.193	.157	.202	.167	.136	.139	.115	.095	.080	.067	.056	.026	.022	.018	
3.0	.229	.176	.135	.196	.152	.117	.135	.106	.082	.078	.062	.048	.025	.020	.016	
4.0	.221	.163	.119	.190	.141	.104	.130	.098	.073	.075	.058	.043	.024	.019	.014	
5.0	.213	.153	.109	.183	.133	.095	.126	.093	.067	.073	.054	.040	.024	.018	.013	
6.0	.206	.145	.101	.177	.126	.088	.122	.088	.062	.071	.052	.037	.023	.017	.012	
7.0	.199	.138	.096	.171	.120	.083	.118	.084	.059	.069	.050	.035	.022	.016	.012	
8.0	.193	.133	.091	.166	.115	.080	.115	.081	.057	.067	.048	.034	.022	.016	.011	
9.0	.186	.128	.088	.161	.111	.077	.111	.078	.055	.065	.046	.033	.021	.015	.011	
10.0	.181	.123	.085	.156	.107	.075	.108	.075	.053	.063	.045	.032	.020	.015	.010	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-07

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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm										
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K					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	21.0	22.4	21.4	22.8	23.1	21.1	22.5	21.4	22.8	23.2
3H	22.7	24.1	23.2	24.5	24.9	22.7	24.1	23.2	24.5	24.9
4H	23.6	24.9	24.1	25.3	25.7	23.5	24.8	23.9	25.2	25.6
6H	24.5	25.7	25.0	26.1	26.6	24.2	25.4	24.6	25.8	26.3
8H	25.0	26.1	25.4	26.5	27.0	24.5	25.7	25.0	26.1	26.6
12H	25.5	26.6	25.9	27.0	27.5	24.8	26.0	25.3	26.4	26.9
4H 2H	21.7	23.0	22.1	23.4	23.8	21.8	23.0	22.2	23.4	23.9
3H	23.7	24.8	24.1	25.2	25.7	23.7	24.8	24.2	25.2	25.7
4H	24.7	25.7	25.2	26.2	26.7	24.6	25.6	25.1	26.1	26.6
6H	25.7	26.7	26.3	27.1	27.7	25.5	26.4	26.0	26.9	27.4
8H	26.3	27.2	26.8	27.7	28.2	25.9	26.7	26.4	27.3	27.8
12H	26.9	27.7	27.5	28.2	28.8	26.3	27.1	26.9	27.6	28.2
8H 4H	25.1	26.0	25.7	26.5	27.0	25.1	25.9	25.6	26.4	27.0
6H	26.4	27.1	27.0	27.7	28.3	26.2	26.9	26.8	27.5	28.1
8H	27.1	27.8	27.7	28.3	29.0	26.8	27.4	27.4	28.0	28.6
12H	28.0	28.5	28.6	29.1	29.8	27.4	28.0	28.0	28.5	29.2
12H 4H	25.2	26.0	25.7	26.5	27.1	25.2	25.9	25.7	26.5	27.0
6H	26.6	27.2	27.2	27.8	28.4	26.4	27.0	27.0	27.6	28.2
8H	27.4	28.0	28.0	28.6	29.2	27.1	27.6	27.7	28.2	28.9
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	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 4170 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-07

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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

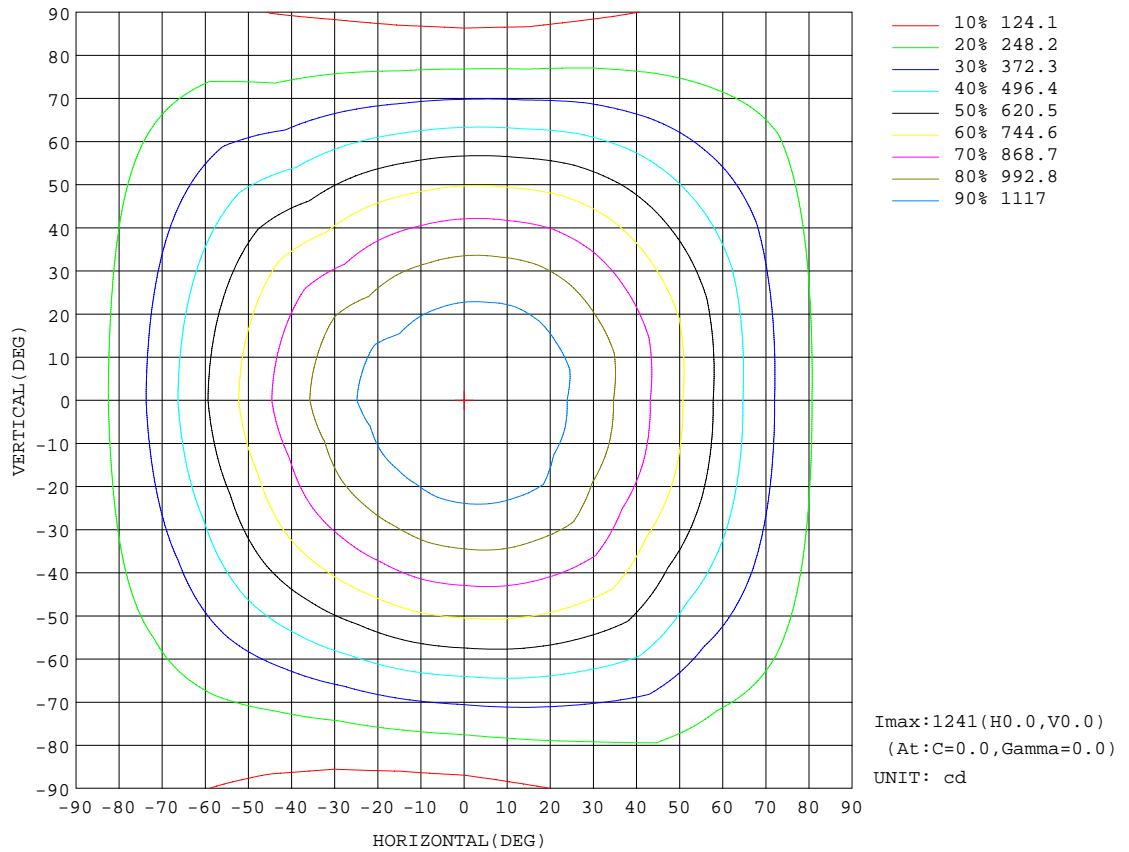
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	34	27
0.80	63	51	43	62	50	43	59	49	42	35
1.00	71	59	51	70	58	51	67	59	50	42
1.25	78	67	59	76	66	58	73	64	57	49
1.50	83	72	65	81	71	64	77	69	62	53
2.00	90	80	73	88	79	72	83	76	70	60
2.50	94	85	79	92	84	77	87	80	75	64
3.00	98	90	83	95	88	82	90	84	79	68
4.00	102	95	90	99	93	88	93	89	84	73
5.00	105	99	94	102	96	92	96	92	88	76
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:2022-04-07

$\gamma$  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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

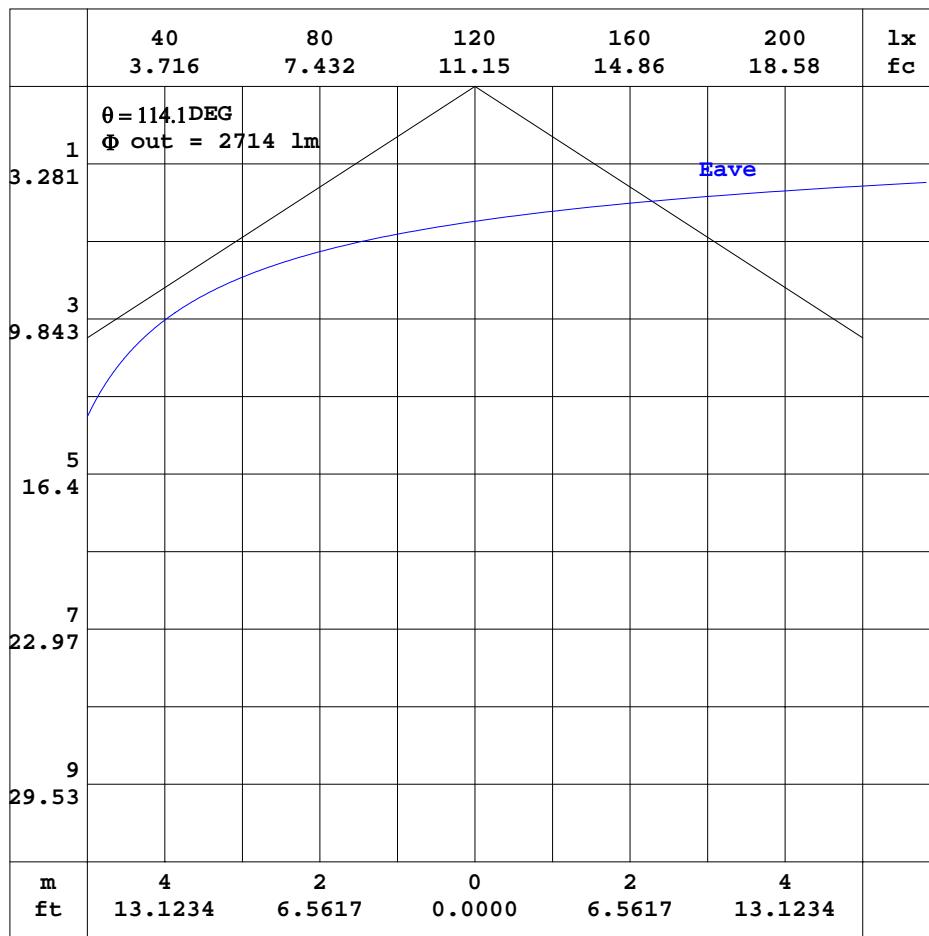


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-07

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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	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.

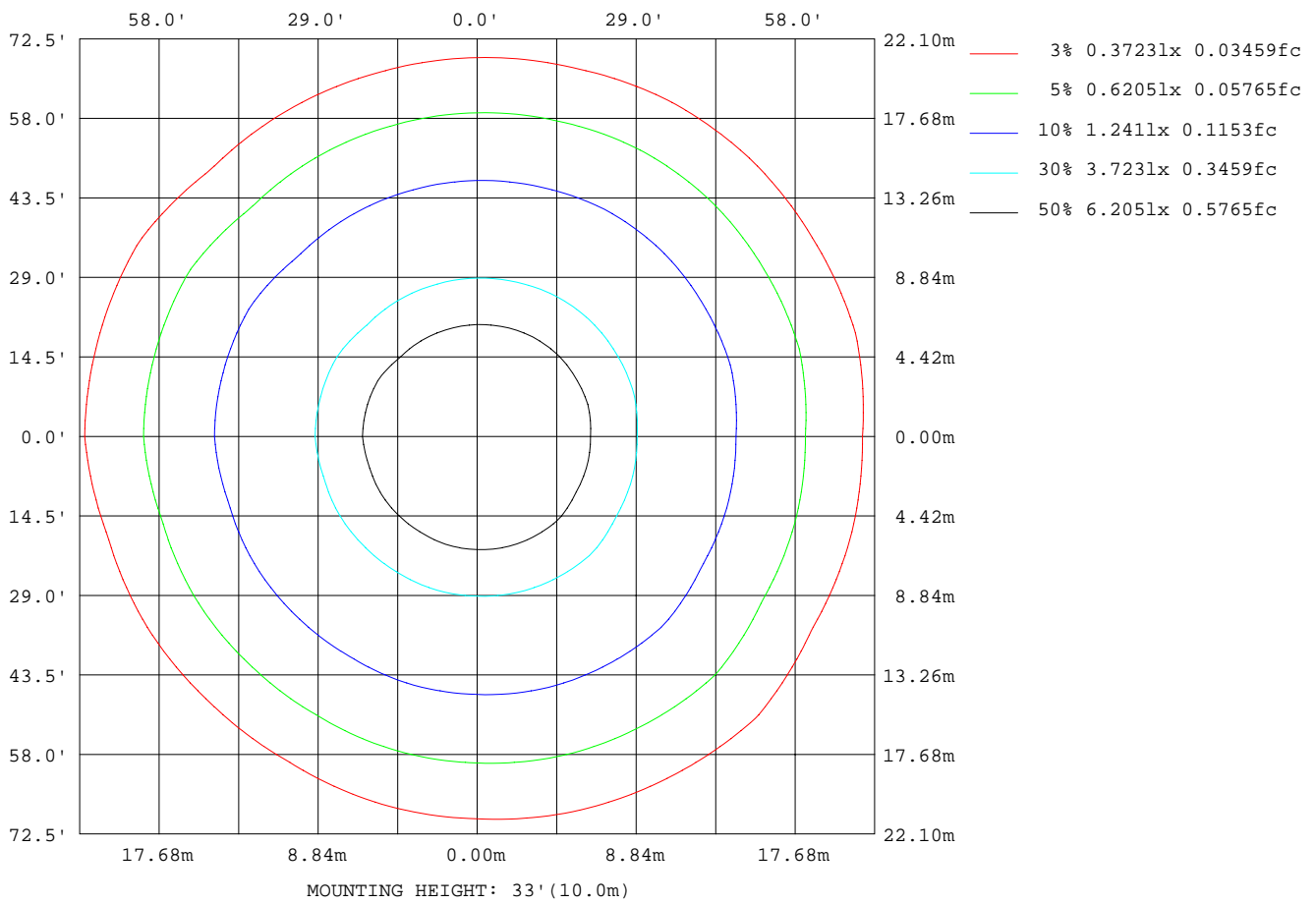
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-07

$\gamma$  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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	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:2022-04-07

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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

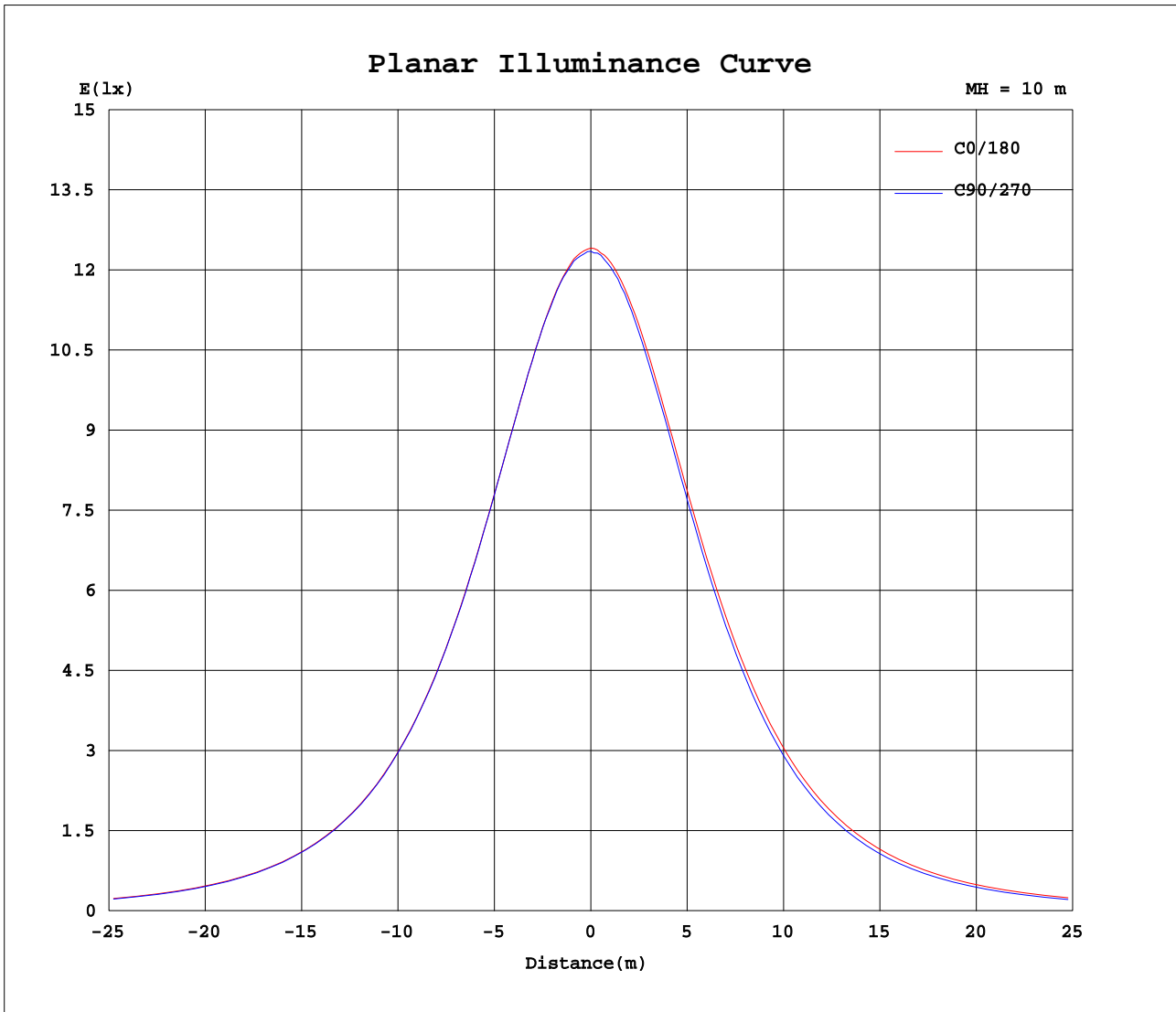
AvgL	cd/m2
L_0~180(65)av	11966
L_0~180(75)av	13111
L_0~180(85)av	23743
L_90~270(65)av	11155
L_90~270(75)av	11016
L_90~270(85)av	16150
L_45(65)av	11592
L_45(75)av	12171
L_45(85)av	20485

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-04-07

$\gamma$  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: 2022-04-07

$\gamma$  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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	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	1241	1240	1239	1236	1234	1236	1235	1236	1236	1236	1237	1235	1241	1240	1239	1236	1234	1236	1235
5	1235	1231	1234	1235	1234	1234	1231	1229	1227	1227	1226	1226	1235	1233	1233	1226	1226	1225	1226
10	1217	1218	1217	1225	1220	1217	1215	1212	1206	1206	1208	1207	1220	1218	1216	1201	1205	1205	1210
15	1189	1190	1191	1204	1198	1195	1189	1184	1177	1177	1178	1178	1195	1191	1191	1170	1173	1176	1180
20	1152	1155	1156	1172	1165	1161	1153	1148	1138	1138	1140	1140	1160	1157	1155	1130	1134	1135	1141
25	1106	1109	1109	1132	1121	1114	1106	1097	1088	1087	1094	1092	1116	1111	1108	1079	1083	1086	1092
30	1052	1055	1053	1081	1069	1059	1050	1043	1030	1032	1036	1037	1063	1058	1056	1021	1026	1029	1036
35	988	992	991	1022	1009	999	986	977	965	964	973	974	1003	997	995	957	960	964	970
40	917	922	921	955	941	928	914	906	891	893	904	905	936	929	928	884	889	891	900
45	841	846	845	881	866	852	838	827	813	813	826	827	862	856	853	806	811	813	822
50	758	763	763	802	785	770	753	743	728	730	743	745	782	775	773	724	728	728	739
55	670	677	676	717	698	684	664	654	638	642	655	659	697	692	688	636	639	642	649
60	580	587	586	629	607	594	571	561	546	550	564	570	610	604	601	546	550	551	559
65	491	497	495	537	517	500	479	468	452	457	474	480	521	515	511	457	457	457	464
70	404	411	408	446	424	405	382	371	357	365	384	393	433	428	424	370	368	364	367
75	326	332	328	360	336	315	291	281	270	281	303	315	353	348	344	293	287	277	279
80	257	262	258	283	257	234	210	199	195	208	232	246	281	276	272	225	215	204	199
85	197	201	198	215	192	168	145	137	136	150	173	186	216	214	208	168	157	144	137
90	147	150	147	161	139	117	96.8	90.1	91.1	104	125	138	164	162	156	123	111	98.8	91.9
95	108	111	107	117	97.7	80.3	64.8	60.9	63.1	74.4	90.1	102	122	121	116	89.9	80.4	69.8	63.5
100	81.8	83.6	81.0	85.3	71.6	59.1	49.7	47.2	50.8	58.6	69.3	78.3	93.1	91.9	88.1	71.5	64.2	56.6	51.7
105	69.3	69.7	67.3	66.5	57.7	50.0	43.5	42.1	46.9	53.4	60.5	67.2	76.3	76.3	73.8	66.1	60.0	53.5	48.6
110	66.2	66.1	63.7	58.4	52.1	45.5	39.2	39.8	44.7	51.2	58.6	65.1	71.4	71.9	70.3	64.3	58.2	51.6	47.0
115	63.7	63.4	60.5	55.6	48.3	41.9	37.3	38.2	42.9	48.9	56.3	62.5	69.2	69.4	67.8	60.8	54.9	48.8	44.7
120	60.5	60.1	56.5	52.4	45.8	39.7	35.5	36.1	40.3	46.0	53.0	58.7	65.4	65.6	63.9	56.7	51.2	45.7	42.0
125	56.6	55.9	52.2	48.9	42.7	37.1	33.2	33.5	37.5	42.8	49.2	54.4	60.9	60.9	59.5	52.3	47.4	42.3	39.1
130	51.7	51.1	47.7	45.6	39.5	34.4	30.7	30.9	34.2	39.1	45.0	49.8	56.0	56.1	54.6	47.5	43.2	38.6	35.8
135	46.8	46.3	43.4	41.3	36.1	31.6	28.1	28.3	31.1	35.3	40.5	44.8	50.8	50.9	49.5	42.5	38.7	34.8	32.5
140	41.7	41.0	38.0	36.9	32.7	28.9	26.0	25.8	28.0	31.5	36.0	39.6	45.4	45.2	43.8	37.1	34.1	30.8	29.1
145	35.7	35.0	32.8	32.6	28.7	26.1	23.7	23.3	24.8	27.8	31.6	34.3	39.3	38.8	37.8	31.8	29.5	27.2	26.1
150	30.5	29.8	27.7	28.1	24.9	22.7	21.0	21.0	21.9	24.1	27.2	29.2	33.3	32.7	31.5	26.6	25.2	23.8	23.3
155	25.2	24.4	23.3	23.9	22.3	20.5	19.5	19.3	19.7	20.7	23.1	24.8	27.7	27.3	26.3	22.8	21.9	21.1	21.0
160	21.8	21.5	20.8	21.4	20.2	18.9	18.5	18.3	18.2	18.7	20.1	21.2	23.6	23.2	22.5	19.9	19.5	19.3	19.2
165	19.5	19.4	18.8	19.3	18.3	17.6	17.3	17.4	17.4	17.6	18.3	18.8	20.3	20.0	19.8	18.4	18.3	18.3	18.2
170	18.0	17.8	17.6	17.9	17.3	16.8	16.6	16.7	16.8	17.3	17.8	18.1	18.8	18.5	18.5	17.9	18.0	17.7	17.6
175	17.3	17.5	17.1	17.1	17.0	16.7	16.6	16.5	16.5	16.8	17.2	17.2	18.4	18.2	18.0	16.8	16.8	17.0	16.8
180	16.9	16.7	16.8	16.9	17.0	17.0	16.8	16.9	17.0	16.9	16.3	16.2	16.9	16.9	16.8	16.9	17.0	17.0	16.7

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-07

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:0.3394A P:45W PF:0.9842 Lamp Flux:3750x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 4000K	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	1236	1236	1236	1237	1235														
5	1229	1231	1232	1234	1234														
10	1213	1216	1219	1218	1220														
15	1183	1194	1197	1194	1195														
20	1149	1158	1161	1160	1163														
25	1101	1112	1117	1118	1122														
30	1045	1059	1065	1064	1069														
35	982	996	1003	1004	1009														
40	908	925	935	934	941														
45	832	850	859	858	866														
50	748	769	776	779	785														
55	660	682	691	691	700														
60	567	590	601	602	610														
65	473	497	509	509	520														
70	377	401	413	419	431														
75	285	310	326	334	348														
80	205	228	246	259	275														
85	142	162	180	194	211														
90	94.7	111	129	142	158														
95	64.8	76.2	89.3	101	115														
100	52.2	58.0	66.8	75.5	85.4														
105	48.7	52.3	57.5	63.5	70.2														
110	47.1	50.8	56.2	61.7	66.5														
115	45.0	48.8	53.9	58.9	63.9														
120	42.6	46.3	50.9	55.9	60.5														
125	39.6	43.4	47.7	52.3	56.7														
130	36.7	40.3	44.4	48.1	52.1														
135	33.6	37.1	41.1	44.1	47.3														
140	30.4	33.7	37.1	40.0	42.8														
145	27.5	30.5	33.1	35.3	37.2														
150	24.6	26.9	29.0	31.0	32.0														
155	21.6	23.5	25.2	26.2	27.0														
160	19.7	21.3	22.2	22.6	22.9														
165	18.3	19.3	20.0	20.2	20.5														
170	17.6	17.9	18.2	18.3	18.6														
175	17.0	17.2	17.3	17.3	17.3														
180	16.9	17.0	16.9	16.3	16.1														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-04-07

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: