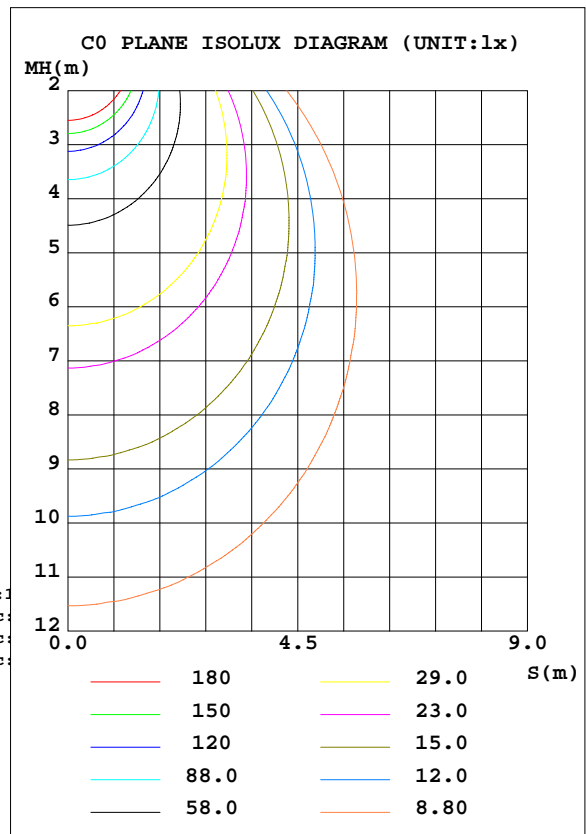
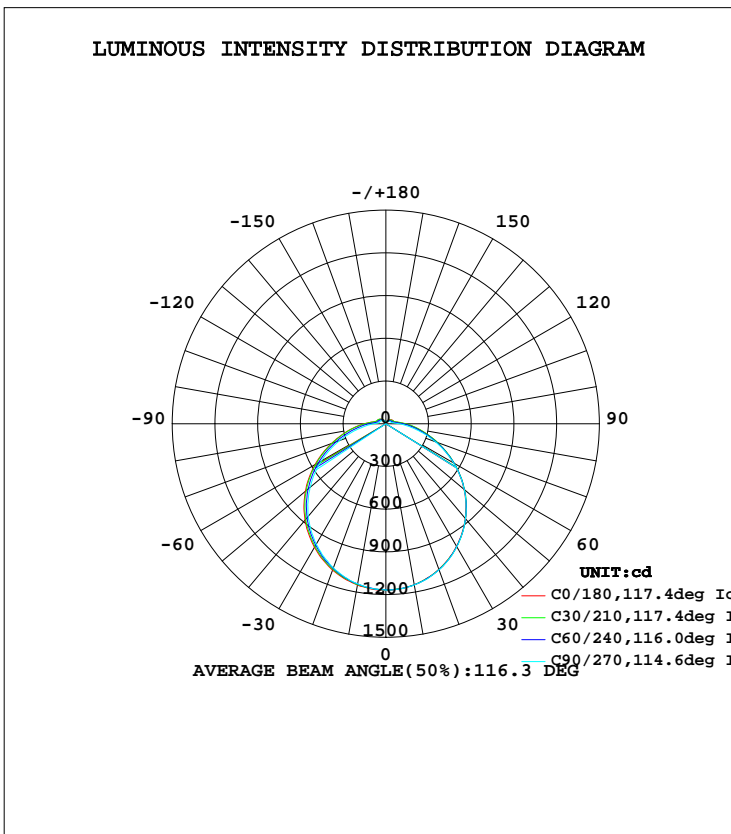


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78,7 lm/W			
MODEL	ASD-LFMOV-MV-32D45CC-NK	Imax(cd)	1170	S/MH(C0/180)	1.28
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3540	η UP, DN(C0-180)	3.7,45.8
NOMINAL FLUX(lm)	3540	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.1,46.3
LAMPS INSIDE	1	η up(%)	7.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	92.1	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1149	1149	1149	1137	1151	1144	1141	1145	0- 10	110.3	110.3	2.8,2.8
20	1088	1092	1091	1075	1094	1084	1077	1091	10- 20	316.1	426.4	10.8,10.8
30	992.9	997.1	996.9	974.6	1004	987.9	977.9	999.0	20- 30	480.4	906.9	23,23
40	868.6	873.5	870.2	847.5	883.1	866.5	848.1	876.7	30- 40	583.1	1490	37.8,37.8
50	717.2	724.1	719.8	696.7	738.8	719.9	695.6	727.1	40- 50	612.7	2103	53.4,53.4
60	550.0	556.8	547.4	526.7	575.4	555.6	524.6	559.4	50- 60	567.6	2670	67.8,67.8
70	382.7	386.6	370.2	352.4	407.4	387.7	344.4	383.5	60- 70	458.3	3128	79.5,79.5
80	241.2	240.0	205.3	201.3	262.8	241.6	187.9	226.3	70- 80	314.8	3443	87.5,87.5
90	138.2	133.3	94.99	101.8	152.6	135.6	86.21	117.7	80- 90	184.0	3627	92.1,92.1
100	76.50	71.93	47.15	55.74	86.67	75.37	49.33	60.94	90-100	96.55	3724	94.6,94.6
110	56.59	50.13	37.45	47.99	65.60	62.57	46.18	50.03	100-110	60.20	3784	96.1,96.1
120	52.43	45.66	34.20	43.19	60.44	56.63	41.12	45.54	110-120	49.67	3834	97.4,97.4
130	44.55	39.07	29.50	36.77	51.40	48.22	35.38	39.63	120-130	39.62	3873	98.4,98.4
140	35.93	31.24	24.59	29.74	41.81	38.61	28.90	32.99	130-140	28.59	3902	99.1,99.1
150	26.49	23.30	19.99	22.92	31.06	28.56	22.77	25.81	140-150	18.27	3920	99.6,99.6
160	19.60	18.53	17.28	17.69	22.39	20.58	18.15	20.28	150-160	10.17	3930	99.8,99.8
170	16.61	16.30	15.89	16.30	17.71	17.22	16.86	16.91	160-170	5.064	3935	100,100
180	16.00	15.72	15.60	15.59	16.00	15.71	15.61	15.59	170-180	1.557	3937	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

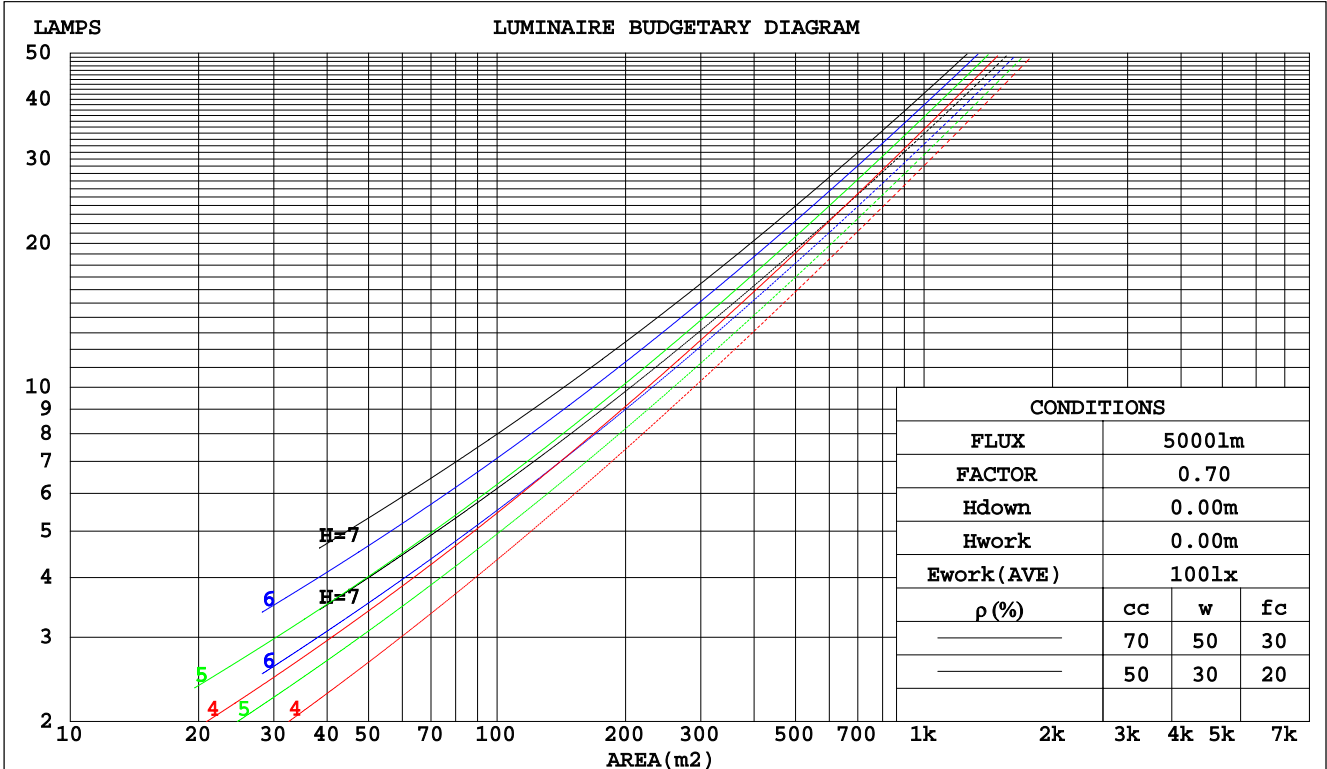
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-07

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:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 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	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.92
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.85	.86	.83	.81	.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:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 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	.345	.196	.062	.335	.191	.061	.318	.182	.058	.301	.174	.056	.286	.166	.053	
2.0	.310	.170	.052	.302	.166	.051	.286	.159	.049	.271	.152	.048	.258	.146	.046	
3.0	.281	.150	.045	.274	.147	.044	.260	.141	.043	.246	.135	.041	.234	.130	.040	
4.0	.257	.133	.039	.250	.131	.039	.237	.126	.038	.225	.121	.036	.214	.116	.035	
5.0	.235	.120	.035	.229	.118	.034	.218	.113	.033	.207	.109	.032	.197	.105	.032	
6.0	.217	.109	.031	.212	.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	.170	.088	.026	
8.0	.187	.092	.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	.076	.022	
10.0	.164	.079	.022	.161	.078	.022	.153	.075	.021	.147	.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	.250	.250	.250	.214	.214	.214	.146	.146	.146	.084	.084	.084	.027	.027	.027	
1.0	.243	.216	.192	.208	.186	.165	.142	.128	.114	.082	.074	.066	.026	.024	.021	
2.0	.236	.193	.157	.202	.166	.135	.138	.115	.094	.080	.067	.055	.026	.022	.018	
3.0	.228	.176	.134	.195	.151	.116	.134	.105	.081	.077	.061	.048	.025	.020	.016	
4.0	.220	.163	.119	.189	.140	.103	.130	.098	.073	.075	.057	.043	.024	.019	.014	
5.0	.213	.152	.108	.183	.132	.094	.126	.092	.066	.073	.054	.039	.023	.018	.013	
6.0	.205	.144	.100	.176	.125	.087	.122	.087	.062	.071	.051	.037	.023	.017	.012	
7.0	.198	.137	.095	.171	.119	.083	.118	.084	.059	.068	.049	.035	.022	.016	.012	
8.0	.192	.132	.091	.165	.114	.079	.114	.080	.056	.066	.047	.033	.021	.016	.011	
9.0	.186	.127	.087	.160	.110	.076	.111	.077	.054	.065	.046	.032	.021	.015	.011	
10.0	.180	.123	.085	.155	.107	.074	.108	.075	.052	.063	.044	.031	.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:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm										
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 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	20.8	22.2	21.1	22.6	22.9	20.7	22.2	21.1	22.5	22.9
3H	22.6	23.9	23.0	24.3	24.7	22.5	23.8	22.9	24.2	24.6
4H	23.4	24.7	23.9	25.1	25.5	23.2	24.5	23.7	24.9	25.3
6H	24.3	25.5	24.8	25.9	26.4	24.0	25.2	24.4	25.6	26.0
8H	24.8	25.9	25.2	26.3	26.8	24.3	25.5	24.7	25.9	26.3
12H	25.3	26.4	25.7	26.8	27.3	24.6	25.8	25.1	26.2	26.7
4H 2H	21.4	22.7	21.8	23.1	23.5	21.4	22.7	21.8	23.1	23.5
3H	23.4	24.5	23.9	25.0	25.4	23.3	24.4	23.8	24.9	25.3
4H	24.5	25.5	24.9	25.9	26.4	24.3	25.3	24.7	25.7	26.2
6H	25.5	26.4	26.0	26.9	27.5	25.1	26.1	25.7	26.6	27.1
8H	26.1	26.9	26.6	27.4	28.0	25.6	26.4	26.1	26.9	27.5
12H	26.7	27.5	27.2	28.0	28.6	26.0	26.8	26.6	27.3	27.9
8H 4H	24.8	25.7	25.4	26.2	26.8	24.7	25.5	25.2	26.0	26.6
6H	26.2	26.9	26.7	27.4	28.0	25.8	26.5	26.4	27.1	27.7
8H	26.9	27.5	27.5	28.1	28.7	26.4	27.0	27.0	27.6	28.2
12H	27.7	28.3	28.3	28.9	29.5	27.0	27.6	27.6	28.2	28.8
12H 4H	24.9	25.7	25.4	26.2	26.8	24.7	25.5	25.3	26.1	26.6
6H	26.3	26.9	26.9	27.5	28.1	26.0	26.6	26.6	27.2	27.8
8H	27.1	27.7	27.7	28.3	28.9	26.7	27.2	27.3	27.8	28.5
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					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 3937 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.8)

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:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

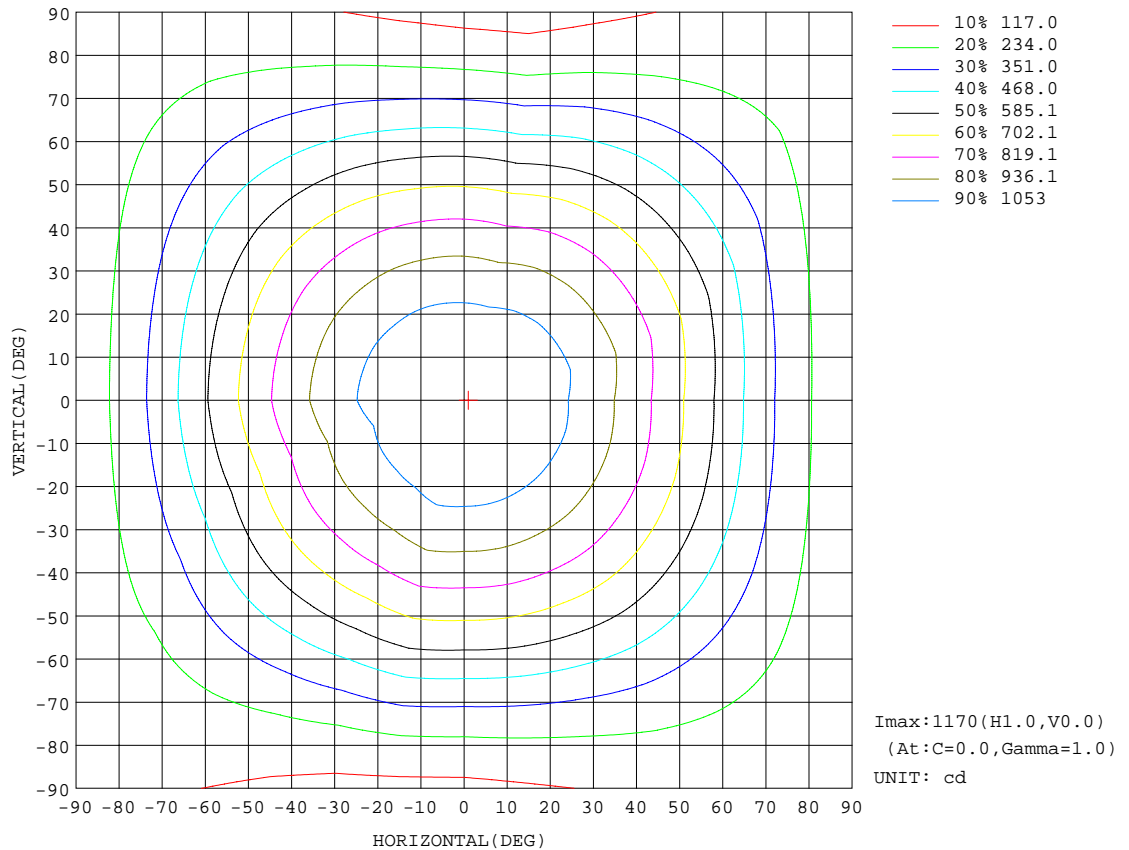
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	34	27
0.80	63	51	43	62	50	43	60	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	81	73	88	79	72	83	76	70	61
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

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:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

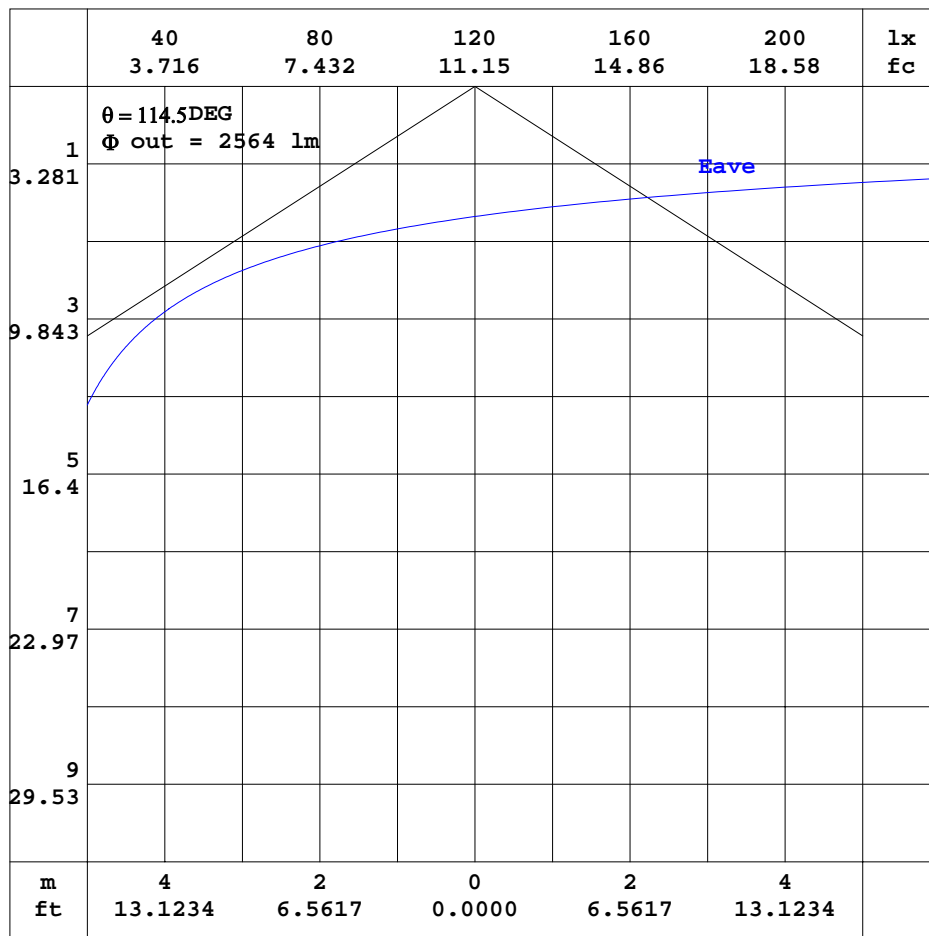


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-07

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:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



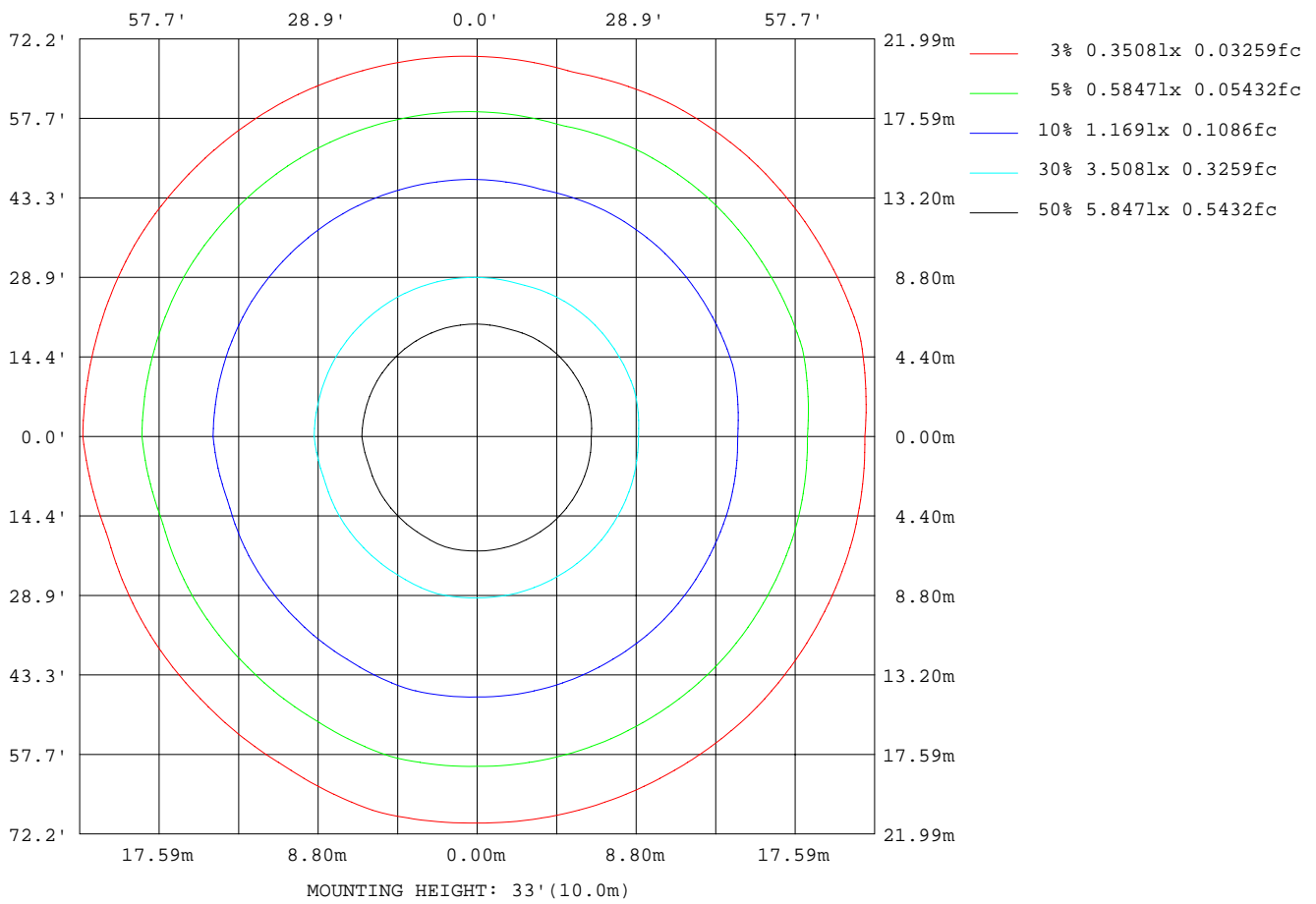
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:

ISOLUX DIAGRAM

Test:U:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 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: 2022-04-07

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:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 5000K	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

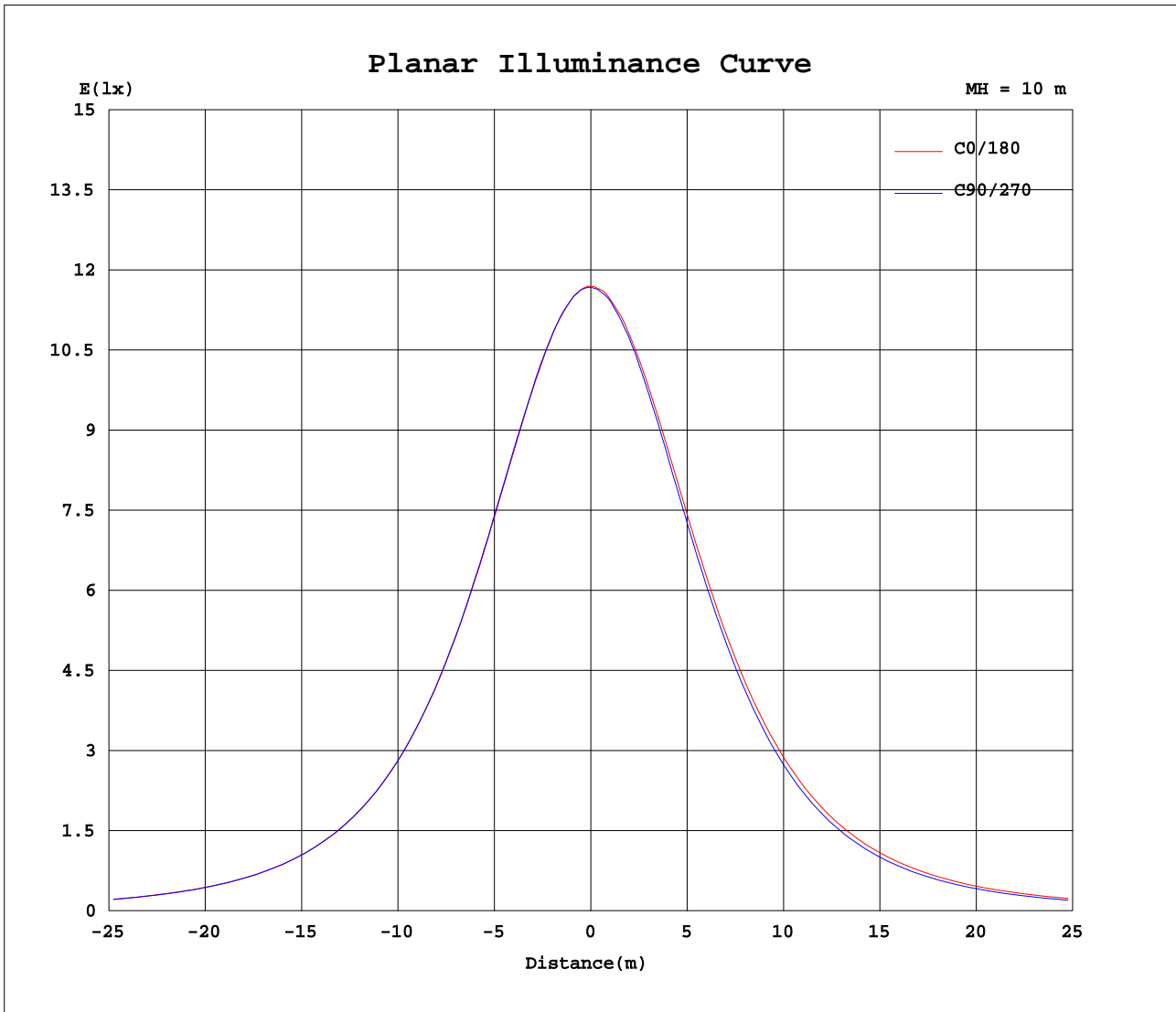
AvgL	cd/m2
L_0~180(65)av	11304
L_0~180(75)av	12334
L_0~180(85)av	22181
L_90~270(65)av	10591
L_90~270(75)av	10501
L_90~270(85)av	15581
L_45(65)av	10961
L_45(75)av	11504
L_45(85)av	19382

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

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: 2022-04-07

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:119.9V I:0.3606A P:45W PF:0.9848 Lamp Flux:3540x1 lm		
NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 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	1169	1168	1167	1167	1167	1169	1168	1167	1163	1162	1160	1159	1169	1168	1167	1167	1167	1169	1168
5	1165	1162	1163	1162	1163	1164	1164	1165	1156	1155	1155	1150	1165	1162	1161	1160	1159	1160	1161
10	1149	1149	1148	1149	1149	1151	1149	1152	1139	1137	1135	1134	1151	1146	1147	1144	1143	1144	1141
15	1122	1123	1124	1125	1124	1127	1127	1128	1116	1111	1108	1104	1126	1123	1122	1117	1117	1117	1115
20	1088	1091	1090	1092	1091	1094	1091	1096	1079	1075	1071	1068	1094	1090	1088	1084	1082	1080	1077
25	1046	1049	1047	1048	1049	1049	1050	1053	1036	1028	1025	1023	1051	1048	1046	1040	1038	1033	1031
30	993	996	995	997	995	998	997	1003	982	975	972	971	1004	998	995	988	985	981	978
35	934	938	937	938	937	938	937	944	921	915	914	912	945	942	938	931	926	919	916
40	869	872	872	873	871	873	870	879	853	848	848	845	883	878	876	866	860	853	848
45	795	800	800	802	798	800	797	805	781	775	775	774	814	808	805	796	790	781	773
50	717	723	722	724	721	721	720	728	702	697	697	695	739	732	730	720	713	702	696
55	635	642	640	642	638	638	635	645	619	613	616	615	658	654	650	640	631	620	610
60	550	556	555	557	552	552	547	556	532	527	530	530	575	570	567	556	547	533	525
65	465	471	470	471	465	463	460	468	442	439	445	446	491	486	483	471	460	445	435
70	383	389	387	387	378	375	370	377	353	352	360	364	407	404	401	388	374	358	344
75	307	314	311	309	298	290	282	287	268	272	284	290	331	328	325	310	296	275	262
80	241	247	245	240	227	215	205	209	195	201	217	225	263	260	257	242	224	204	188
85	185	189	187	181	168	155	143	142	136	146	162	171	202	201	197	184	166	146	129
90	138	142	140	133	121	107	95.0	93.4	91.6	102	116	126	153	152	148	136	120	101	86.2
95	101	105	103	96.7	85.7	73.8	63.8	62.1	62.6	71.7	84.3	93.3	114	113	110	98.6	85.7	70.6	59.7
100	76.5	79.0	77.1	71.9	63.1	54.3	47.1	45.6	48.6	55.7	64.7	72.3	86.7	86.4	84.0	75.4	65.7	55.8	49.3
105	62.5	63.7	61.9	56.3	50.7	45.6	40.7	39.8	44.3	50.0	56.2	62.0	70.7	71.3	70.2	64.9	58.9	53.1	47.9
110	56.6	57.1	55.1	50.1	46.7	42.3	37.4	37.6	42.0	48.0	54.4	60.1	65.6	66.7	66.0	62.6	57.6	51.4	46.2
115	54.8	54.8	52.4	48.3	43.9	39.2	36.1	36.2	40.4	45.9	52.3	57.8	63.7	64.6	63.8	60.0	54.8	48.7	43.7
120	52.4	52.2	49.5	45.7	41.2	37.1	34.2	34.4	38.2	43.2	49.3	54.3	60.4	61.1	60.3	56.6	51.6	45.7	41.1
125	49.1	48.7	45.8	42.4	38.3	34.6	31.9	32.1	35.5	40.2	45.7	50.2	56.1	57.0	56.2	52.6	47.9	42.6	38.4
130	44.5	44.1	41.9	39.1	35.1	31.7	29.5	29.8	32.5	36.8	41.9	46.0	51.4	52.3	51.5	48.2	43.9	39.1	35.4
135	40.3	39.8	38.1	35.2	32.1	29.0	27.0	27.3	29.5	33.3	37.7	41.4	46.9	47.4	46.7	43.6	39.8	35.4	32.2
140	35.9	35.4	33.3	31.2	28.9	26.3	24.6	25.0	26.7	29.7	33.4	36.5	41.8	42.0	41.6	38.6	35.3	31.6	28.9
145	30.6	30.1	29.0	27.3	25.1	23.5	22.3	22.5	23.7	26.2	29.3	31.6	36.6	36.5	35.7	33.4	30.8	27.9	25.7
150	26.5	25.6	24.6	23.3	21.6	20.6	20.0	20.3	20.9	22.9	25.3	27.0	31.1	30.9	30.1	28.6	26.4	24.3	22.8
155	22.0	21.5	21.0	20.3	19.6	18.6	18.3	18.6	18.7	19.7	21.7	23.0	26.1	25.6	25.4	23.6	22.5	21.1	20.1
160	19.6	19.4	18.9	18.5	18.0	17.3	17.3	17.6	17.2	17.7	18.9	19.9	22.4	22.2	21.5	20.6	19.8	18.8	18.1
165	17.8	17.7	17.3	17.0	16.6	16.3	16.3	16.6	16.4	16.5	17.2	17.6	19.4	19.2	18.9	18.3	18.0	17.5	17.2
170	16.6	16.5	16.4	16.3	16.1	15.9	15.9	16.0	15.9	16.3	16.7	16.8	17.7	17.5	17.3	17.2	17.3	17.2	16.9
175	16.0	16.1	15.9	15.7	15.8	15.7	15.7	15.9	15.6	15.9	16.1	16.0	17.2	17.0	16.9	16.9	16.5	16.1	15.8
180	16.0	15.8	15.8	15.7	15.6	15.7	15.6	15.6	15.6	15.6	15.2	15.2	16.0	15.8	15.8	15.7	15.6	15.6	15.6

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:

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NAME: ASD-LFMOV-MV-32D45CC-NK/BZ 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	1167	1163	1162	1160	1159														
5	1157	1158	1159	1160	1158														
10	1140	1142	1145	1148	1148														
15	1111	1118	1122	1126	1128														
20	1073	1083	1091	1095	1098														
25	1025	1040	1050	1053	1058														
30	971	987	999	1004	1012														
35	908	929	940	947	955														
40	839	861	877	883	892														
45	765	789	804	812	823														
50	683	712	727	736	747														
55	600	629	646	655	667														
60	512	542	559	571	584														
65	421	453	472	484	498														
70	331	363	383	397	414														
75	247	279	300	317	335														
80	174	203	226	245	263														
85	119	142	165	183	202														
90	78.0	97.3	118	134	152														
95	54.2	66.8	82.1	96.6	111														
100	46.8	51.4	60.9	71.4	82.5														
105	45.4	47.7	51.4	58.1	65.5														
110	43.7	46.6	50.0	53.6	57.6														
115	41.4	44.4	48.3	51.9	55.4														
120	39.0	42.0	45.5	49.5	52.9														
125	36.4	39.3	42.6	46.4	49.9														
130	33.5	36.5	39.6	42.6	45.8														
135	30.5	33.5	36.6	39.1	41.6														
140	27.4	30.3	33.0	35.4	37.8														
145	24.4	27.3	29.4	31.2	32.7														
150	21.7	24.1	25.8	27.5	28.3														
155	19.3	21.2	22.5	23.4	24.0														
160	17.5	19.4	20.3	20.6	20.8														
165	16.5	17.7	18.4	18.7	19.0														
170	16.2	16.5	16.9	17.1	17.4														
175	15.7	16.0	16.1	16.1	16.2														
180	15.6	15.6	15.6	15.2	15.2														

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: