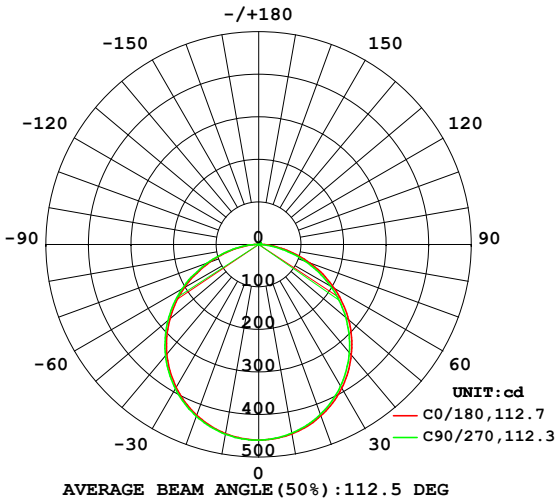
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding Angle:

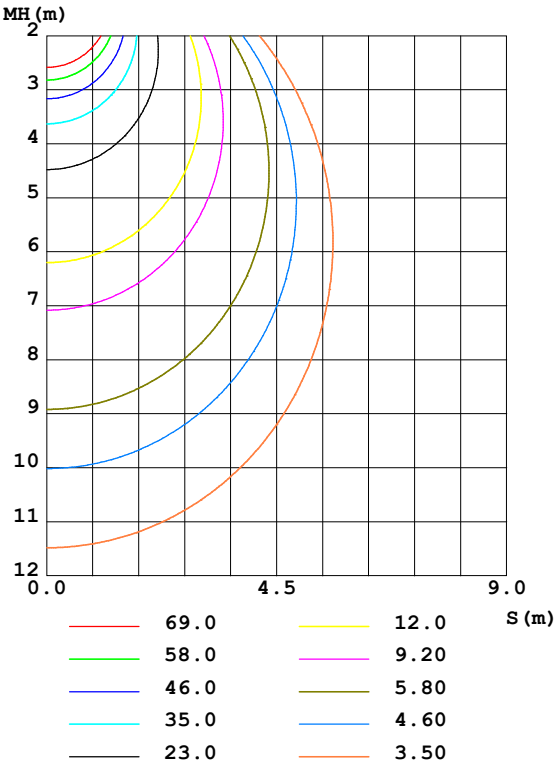
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 89.67 lm/W	
MODEL	ASD-JFRB-MV-6D15WH	Imax(cd)	460.3	S/MH(C0/180)	1.26
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1336.1	η UP,DN(C0-180)	0.9,48.7
NOMINAL FLUX(lm)	1336.14	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.8,49.6
LAMPS INSIDE	1	η up(%)	1.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	98.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):112.5 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

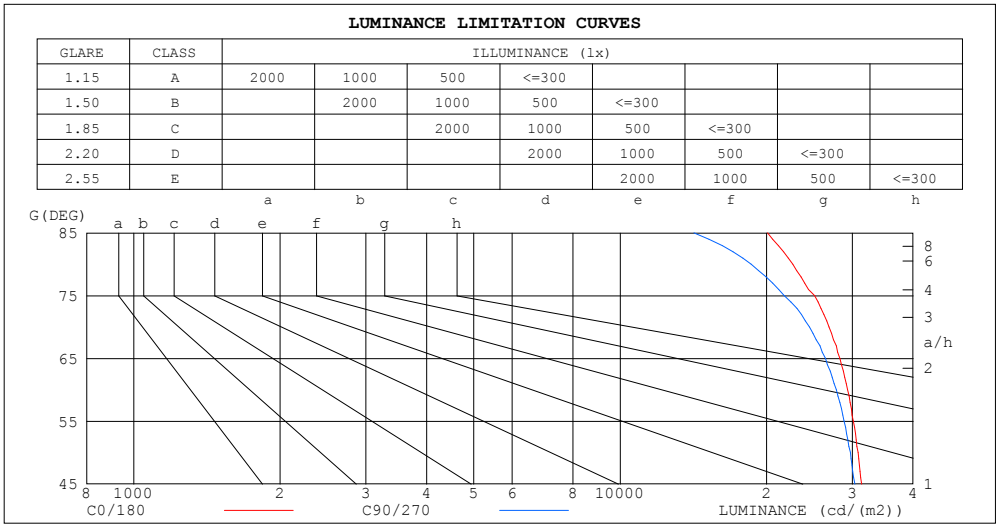
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	452.1	451.6	450.3	451.4	451.2	452.4	452.8	452.5	0- 10	43.50	43.50	3.26,3.26
20	428.7	426.8	424.8	426.8	426.9	428.8	429.9	428.7	10- 20	124.6	168.1	12.6,12.6
30	390.6	387.8	384.8	388.0	388.0	390.0	392.1	390.1	20- 30	189.0	357.1	26.7,26.7
40	339.1	334.7	331.4	335.7	336.0	338.6	340.8	338.7	30- 40	228.0	585.1	43.8,43.8
50	276.4	271.2	267.8	272.1	272.8	276.2	278.6	276.1	40- 50	236.4	821.5	61.5,61.5
60	204.8	199.2	195.0	200.0	200.9	204.5	207.5	204.8	50- 60	213.4	1035	77.5,77.5
70	128.2	119.8	117.5	121.4	122.9	127.6	128.8	128.4	60- 70	161.5	1196	89.5,89.5
80	54.83	48.79	45.29	50.30	51.05	53.36	55.60	54.42	70- 80	91.77	1288	96.4,96.4
90	3.012	2.893	2.881	2.879	1.816	1.926	2.917	2.033	80- 90	25.47	1314	98.3,98.3
100	3.068	3.126	3.122	3.124	2.219	2.170	2.168	2.179	90-100	2.714	1316	98.5,98.5
110	3.386	3.434	3.459	3.439	2.725	2.663	2.676	2.685	100-110	3.013	1319	98.7,98.7
120	3.697	3.723	3.748	3.737	3.256	3.176	3.215	3.211	110-120	3.240	1323	99,99
130	3.970	4.003	4.023	4.010	3.770	3.681	3.729	3.720	120-130	3.286	1326	99.2,99.2
140	4.311	4.346	4.374	4.373	4.284	4.194	4.240	4.249	130-140	3.152	1329	99.5,99.5
150	4.705	4.746	4.770	4.775	4.787	4.695	4.737	4.744	140-150	2.835	1332	99.7,99.7
160	5.130	5.159	5.186	5.189	5.254	5.139	5.192	5.171	150-160	2.292	1334	99.8,99.8
170	5.502	5.514	5.525	5.523	5.614	5.506	5.557	5.514	160-170	1.515	1336	100,100
180	5.739	5.705	5.705	5.692	5.759	5.685	5.717	5.689	170-180	0.5358	1336	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	**TYPE:**	**WEIGHT:**
SPEC.:5000K	**DIM.:**	**SERIAL No.:**
MFR.: ASD Lighting Corp	**SUR.:0.13**	**Shielding Angle:**



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	20078	14189
80	22634	18607
75	25106	21742
70	26878	24516
65	28314	26424
60	29363	27818
55	30149	28856
50	30827	29725
45	31344	30361

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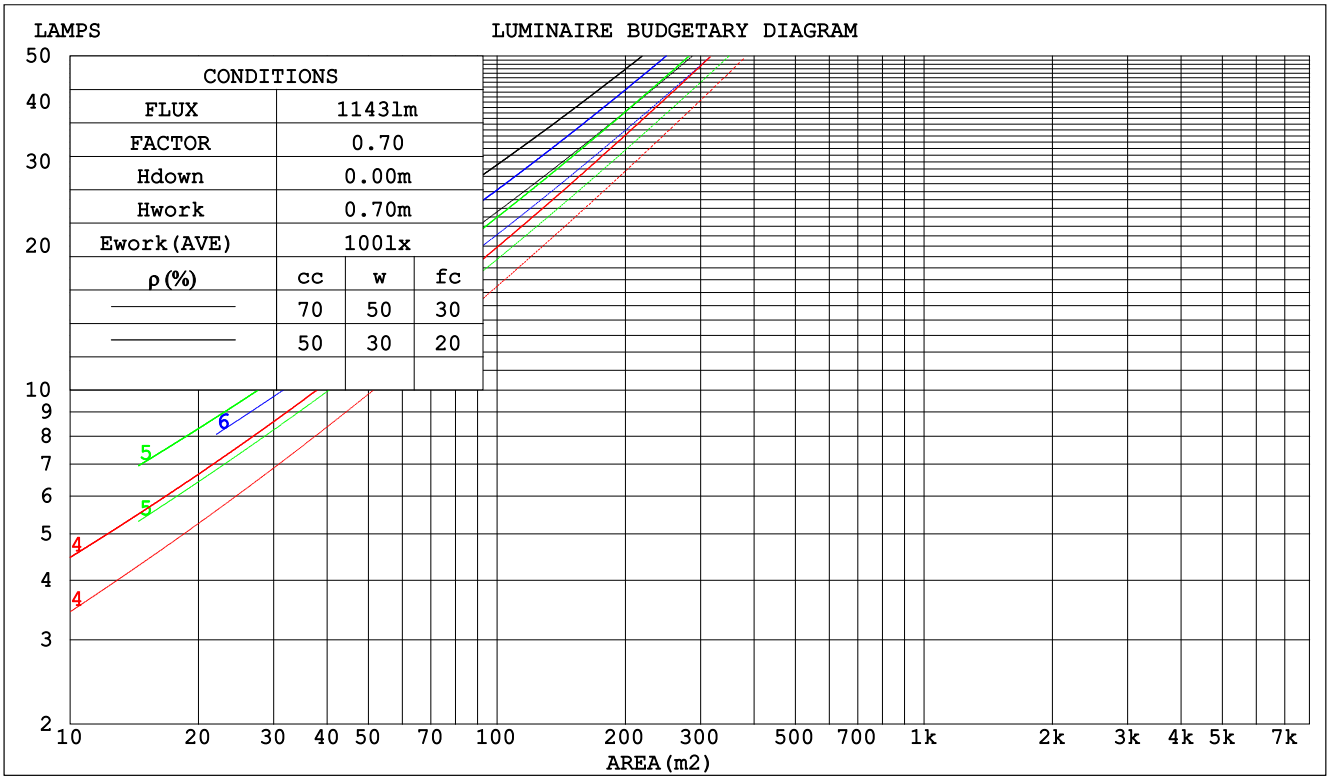
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding 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			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	.94	.96	.93	.90	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.77	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding 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 Coeffcients(WEC)												
0.0																
1.0	.309	.176	.056	.302	.172	.055	.288	.165	.053	.275	.158	.051	.262	.152	.049	
2.0	.291	.160	.049	.284	.157	.048	.272	.151	.047	.260	.146	.046	.249	.141	.044	
3.0	.269	.143	.043	.263	.141	.042	.252	.137	.042	.242	.133	.041	.232	.129	.040	
4.0	.249	.129	.038	.243	.127	.038	.233	.124	.037	.224	.120	.036	.216	.117	.036	
5.0	.230	.117	.034	.225	.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	.187	.098	.029	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.021	.146	.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	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.193	.169	.147	.165	.145	.127	.113	.100	.088	.065	.058	.051	.021	.019	.016	
2.0	.185	.145	.111	.159	.125	.096	.109	.086	.067	.063	.050	.039	.020	.016	.013	
3.0	.177	.127	.088	.152	.110	.076	.104	.076	.053	.060	.045	.031	.019	.014	.010	
4.0	.170	.114	.072	.146	.099	.062	.100	.069	.044	.058	.040	.026	.019	.013	.009	
5.0	.162	.104	.060	.140	.090	.053	.096	.063	.037	.056	.037	.022	.018	.012	.007	
6.0	.155	.095	.052	.134	.083	.046	.092	.058	.032	.053	.034	.019	.017	.011	.006	
7.0	.149	.089	.047	.128	.077	.041	.088	.054	.029	.051	.032	.017	.017	.010	.006	
8.0	.142	.083	.042	.122	.072	.037	.085	.050	.026	.049	.030	.016	.016	.010	.005	
9.0	.136	.078	.039	.117	.068	.034	.081	.048	.024	.047	.028	.014	.015	.009	.005	
10.0	.130	.074	.036	.112	.064	.031	.078	.045	.022	.045	.027	.013	.015	.009	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding 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	23.6	25.1	23.9	25.3	25.6	23.4	24.9	23.7	25.1	25.4
3H	25.1	26.5	25.4	26.8	27.0	24.8	26.2	25.1	26.5	26.7
4H	25.7	27.0	26.1	27.3	27.6	25.4	26.7	25.7	27.0	27.2
6H	26.2	27.4	26.5	27.7	28.0	25.7	26.9	26.1	27.2	27.6
8H	26.3	27.5	26.7	27.8	28.1	25.8	27.0	26.2	27.3	27.6
12H	26.4	27.5	26.8	27.9	28.2	25.8	27.0	26.2	27.3	27.6
4H 2H	24.2	25.5	24.5	25.7	26.0	24.0	25.3	24.3	25.6	25.9
3H	25.8	27.0	26.2	27.3	27.7	25.6	26.7	26.0	27.1	27.4
4H	26.6	27.6	27.0	28.0	28.3	26.2	27.3	26.6	27.7	28.0
6H	27.1	28.1	27.6	28.4	28.8	26.7	27.6	27.1	28.0	28.4
8H	27.3	28.2	27.8	28.6	29.0	26.9	27.7	27.3	28.1	28.5
12H	27.5	28.3	27.9	28.7	29.1	26.9	27.7	27.4	28.1	28.6
8H 4H	26.8	27.7	27.2	28.1	28.5	26.5	27.4	26.9	27.8	28.2
6H	27.5	28.2	28.0	28.6	29.1	27.1	27.8	27.6	28.3	28.7
8H	27.8	28.4	28.3	28.9	29.4	27.3	28.0	27.8	28.4	28.9
12H	28.0	28.5	28.5	29.0	29.5	27.5	28.0	28.0	28.5	29.0
12H 4H	26.8	27.6	27.2	28.0	28.4	26.5	27.3	27.0	27.7	28.2
6H	27.5	28.2	28.0	28.6	29.1	27.2	27.8	27.6	28.3	28.7
8H	27.8	28.4	28.3	28.9	29.4	27.4	28.0	27.9	28.4	28.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1336 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)
Area: 0.014 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding 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	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	91	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	94	91	81
5.00	108	103	99	106	101	97	101	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

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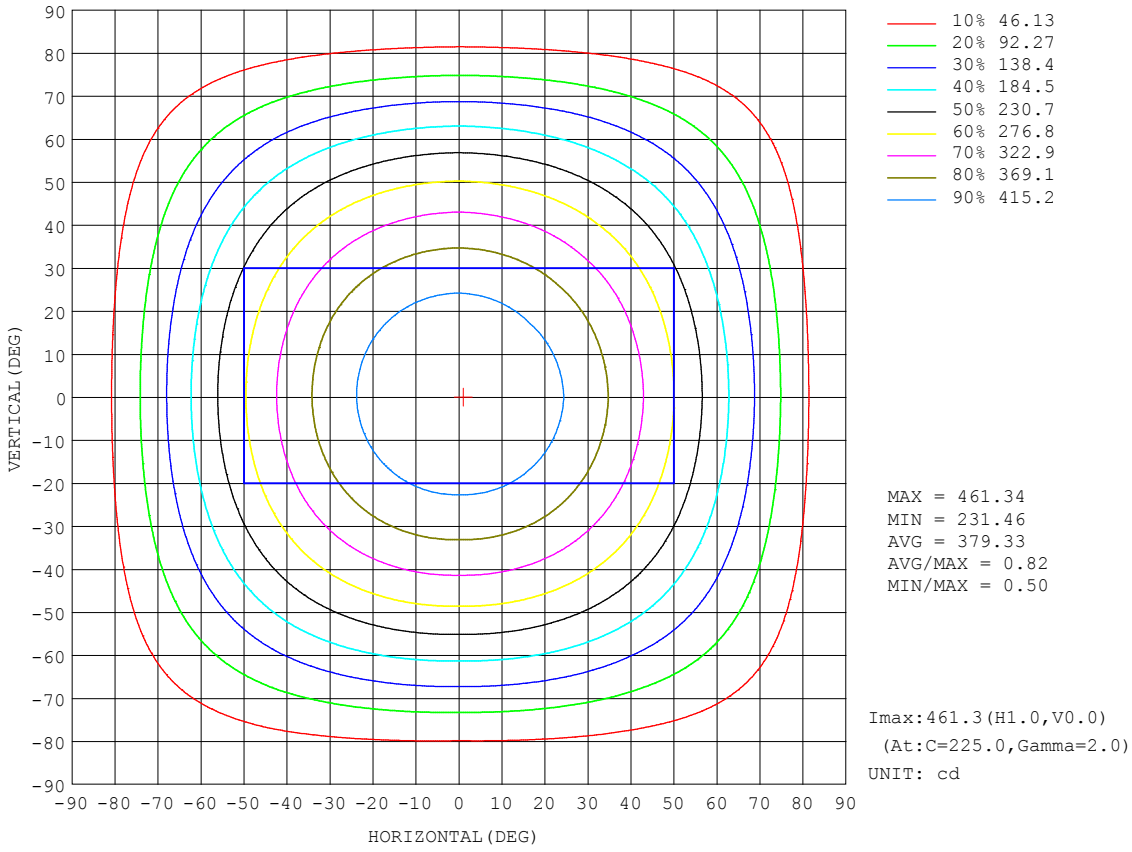

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Remarks:

AAI Figure

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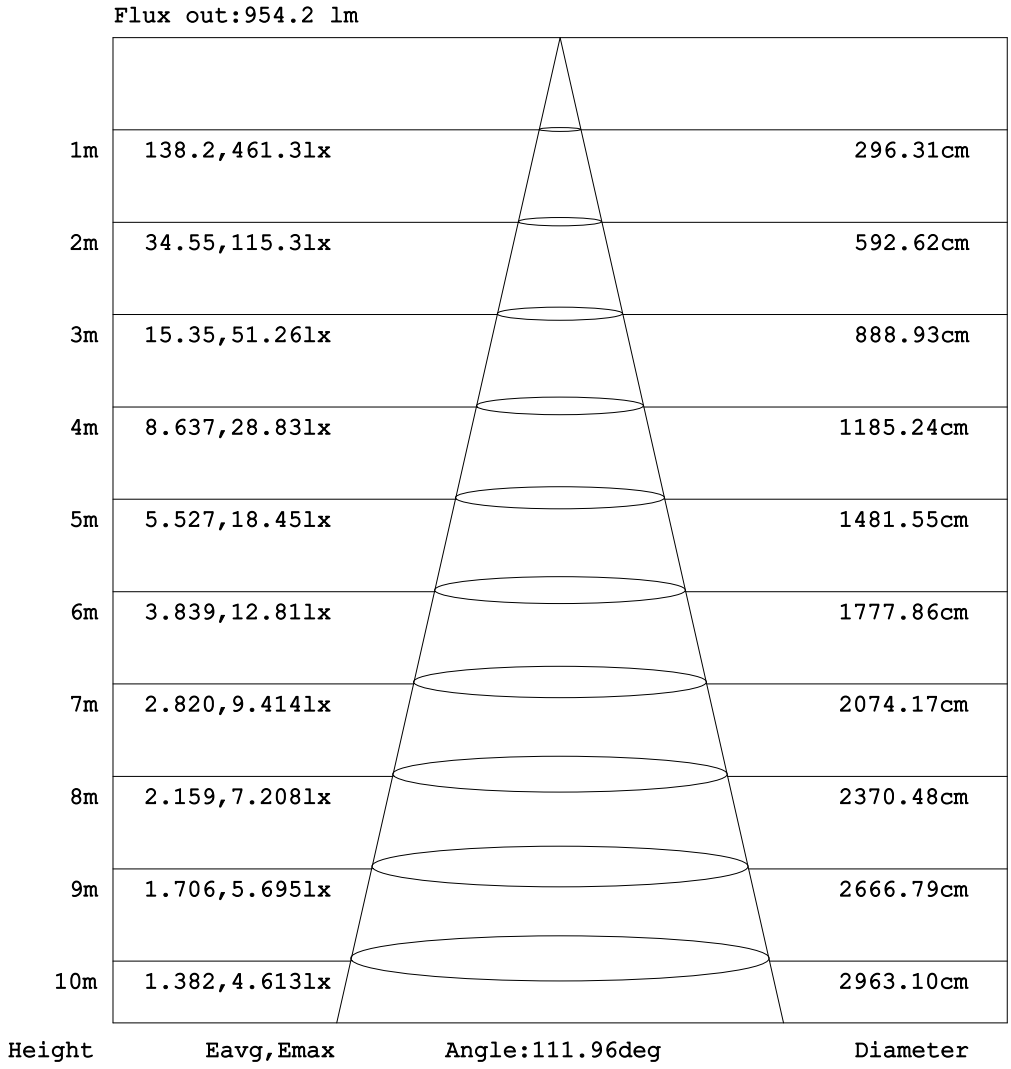

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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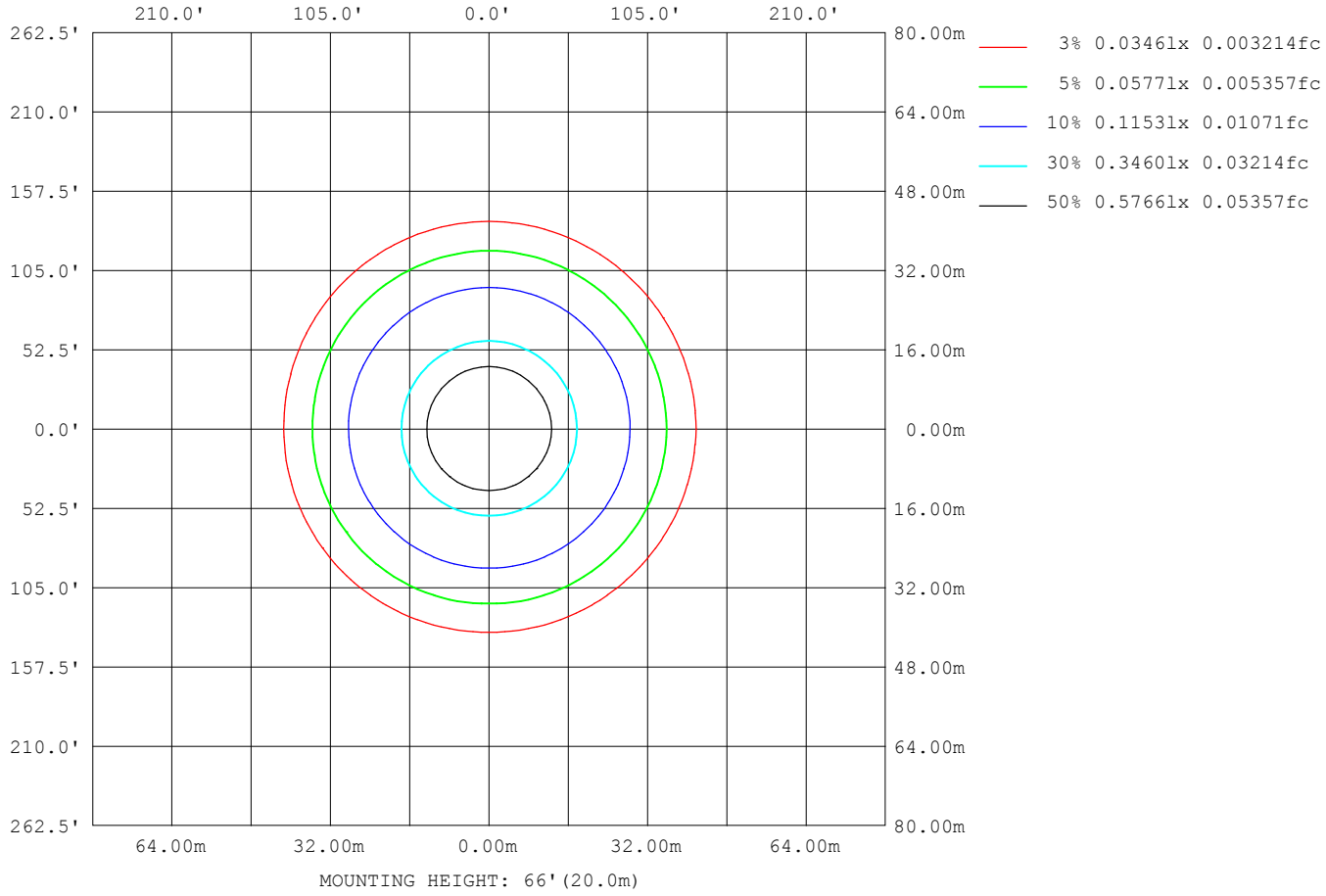
Remarks:

ISOLUX DIAGRAM

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding Angle:

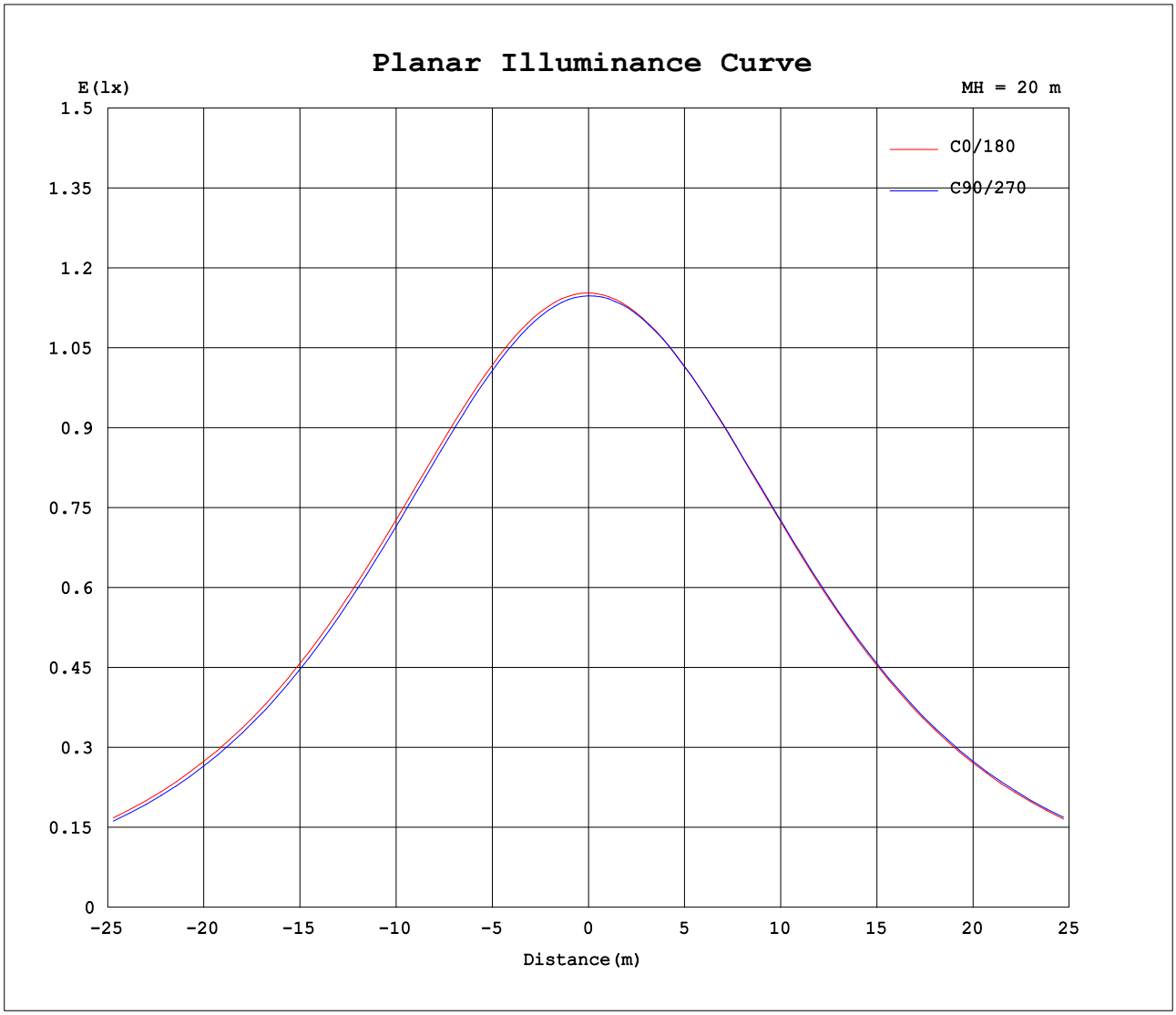
AvgL	cd/m2
L_0~180(65)av	27666
L_0~180(75)av	24330
L_0~180(85)av	18529
L_90~270(65)av	27458
L_90~270(75)av	23434
L_90~270(85)av	17441
L_45(65)av	27483
L_45(75)av	23913
L_45(85)av	18015

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2011-03-01

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.074m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.20V I:0.1280A P:14.900W PF:0.9680 Freq:60.00Hz Lamp Flux:1336.14x1 lm		
NAME: ASD-JFRB-MV-6D15WH	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.13	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0	460	460	460	460	460	460	460	460
5	458	457	457	458	457	458	458	458
10	452	452	450	451	451	452	453	453
15	442	441	440	441	441	443	443	443
20	429	427	425	427	427	429	430	429
25	411	409	407	409	409	411	413	411
30	391	388	385	388	388	390	392	390
35	366	363	360	363	363	366	368	366
40	339	335	331	336	336	339	341	339
45	309	304	301	305	306	308	311	309
50	276	271	268	272	273	276	279	276
55	241	236	232	237	238	241	244	241
60	205	199	195	200	201	205	208	205
65	167	158	157	159	160	167	168	167
70	128	120	118	121	123	128	129	128
75	90.6	82.9	78.9	84.4	85.7	89.0	91.0	90.3
80	54.8	48.8	45.3	50.3	51.0	53.4	55.6	54.4
85	24.4	19.8	17.3	21.1	20.8	23.0	25.2	24.1
90	3.01	2.89	2.88	2.88	1.82	1.93	2.92	2.03
95	2.94	2.99	2.97	2.97	1.98	1.95	1.95	1.96
100	3.07	3.13	3.12	3.12	2.22	2.17	2.17	2.18
105	3.22	3.28	3.28	3.28	2.46	2.41	2.42	2.43
110	3.39	3.43	3.46	3.44	2.72	2.66	2.68	2.69
115	3.55	3.59	3.60	3.59	3.00	2.92	2.95	2.95
120	3.70	3.72	3.75	3.74	3.26	3.18	3.22	3.21
125	3.83	3.86	3.88	3.87	3.52	3.44	3.48	3.46
130	3.97	4.00	4.02	4.01	3.77	3.68	3.73	3.72
135	4.13	4.16	4.19	4.17	4.02	3.94	3.99	3.98
140	4.31	4.35	4.37	4.37	4.28	4.19	4.24	4.25
145	4.51	4.55	4.57	4.57	4.54	4.45	4.49	4.50
150	4.71	4.75	4.77	4.77	4.79	4.70	4.74	4.74
155	4.92	4.96	4.98	4.98	5.02	4.94	4.97	4.97
160	5.13	5.16	5.19	5.19	5.25	5.14	5.19	5.17
165	5.32	5.35	5.37	5.36	5.45	5.34	5.39	5.36
170	5.50	5.51	5.53	5.52	5.61	5.51	5.56	5.51
175	5.65	5.63	5.64	5.64	5.72	5.62	5.67	5.63
180	5.74	5.70	5.71	5.69	5.76	5.69	5.72	5.69

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
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