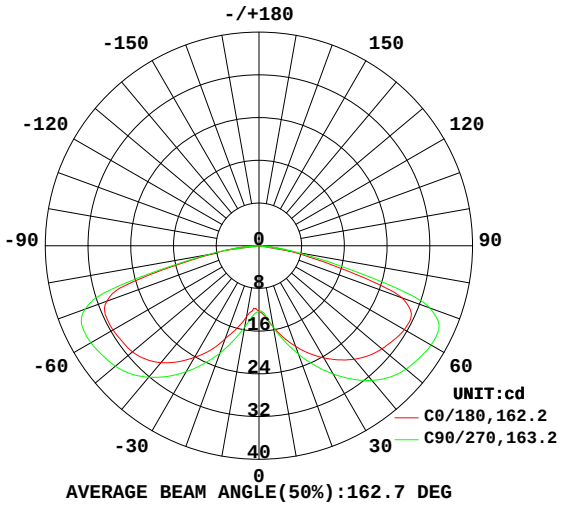
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.005V I:0.6257A P:5.0320W PF:0.6699 Freq:60.00Hz Lamp Flux:156.234x1 lm		
NAME: ASD-LSP-FH-LV-5BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 5-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

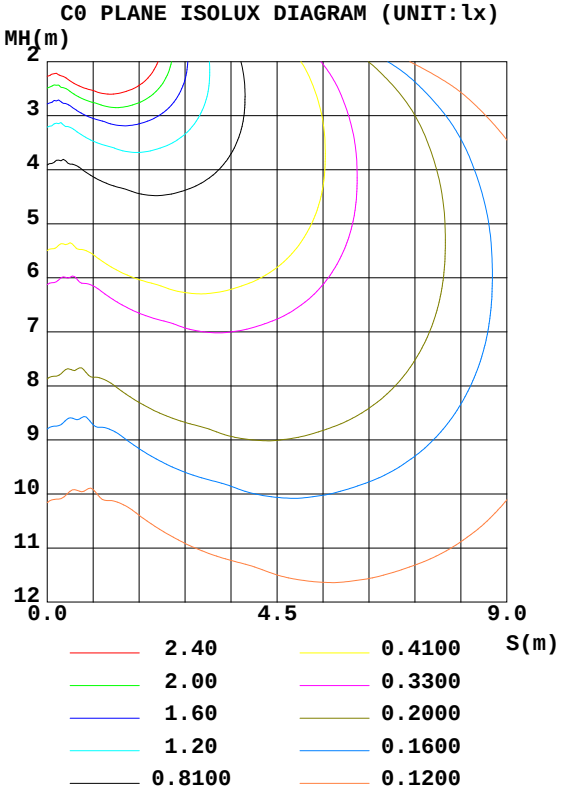
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 31.05 lm/W	
MODEL	ASD-LSP-FH-LV-5BK	Imax(cd)	39.32	S/MH(C0/180)	2.74
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	2.94
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	156.23	η UP,DN(C0-180)	0.3,50.5
NOMINAL FLUX(lm)	156.234	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.3,49.0
LAMPS INSIDE	1	η up(%)	0.5	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	12	η down(%)	99.5	CIBSE SHR MAX	2.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):162.7 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [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	13.51	14.79	15.45	16.09	15.48	15.69	15.56	14.12	0- 10	1.306	1.306	0.84,0.84
20	18.53	20.77	21.40	21.89	20.07	21.47	21.60	20.41	10- 20	5.159	6.465	4.14,4.14
30	24.14	27.27	27.22	28.33	24.24	27.99	27.72	27.77	20- 30	11.09	17.56	11.2,11.2
40	28.57	32.87	32.15	33.46	27.75	33.40	32.90	32.82	30- 40	18.53	36.09	23.1,23.1
50	30.92	36.51	35.10	36.44	30.05	36.40	35.94	36.95	40- 50	25.98	62.07	39.7,39.7
60	31.56	37.90	36.34	37.68	31.42	37.52	37.19	39.12	50- 60	31.97	94.03	60.2,60.2
70	30.31	36.79	34.65	34.36	28.49	33.51	34.00	36.82	60- 70	35.59	129.6	83,83
80	9.184	12.05	9.855	7.762	5.929	6.766	7.372	9.248	70- 80	22.34	152.0	97.3,97.3
90	0.5363	0.5386	0.3300	0.4352	0.4145	0.4887	0.2809	0.4626	80- 90	3.425	155.4	99.5,99.5
100	0.2093	0.3404	0.2978	0.2750	0.0073	0.3093	0.2337	0.2952	90-100	0.3768	155.8	99.7,99.7
110	0.1283	0.1680	0.1849	0.1333	0.0669	0.1702	0.1374	0.1559	100-110	0.2263	156.0	99.8,99.8
120	0.0721	0.1179	0.0405	0.1128	0.0510	0.1131	0.0401	0.1024	110-120	0.1178	156.1	99.9,99.9
130	0.0370	0.0509	0.0330	0.0410	0.0273	0.0559	0.0234	0.0512	120-130	0.0544	156.2	100,100
140	0.0349	0.0402	0.0380	0.0362	0.0165	0.0226	0.0213	0.0227	130-140	0.0262	156.2	100,100
150	0.0395	0.0435	0.0436	0.0408	0.0134	0.0172	0.0192	0.0181	140-150	0.0183	156.2	100,100
160	0.0432	0.0446	0.0440	0.0429	0.0174	0.0197	0.0225	0.0200	150-160	0.0141	156.2	100,100
170	0.0401	0.0435	0.0409	0.0408	0.0235	0.0278	0.0265	0.0254	160-170	0.0091	156.2	100,100
180	0.0331	0.0341	0.0332	0.0337	0.0328	0.0333	0.0330	0.0337	170-180	0.0033	156.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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Operators:Water
Test Date:2025-10-21

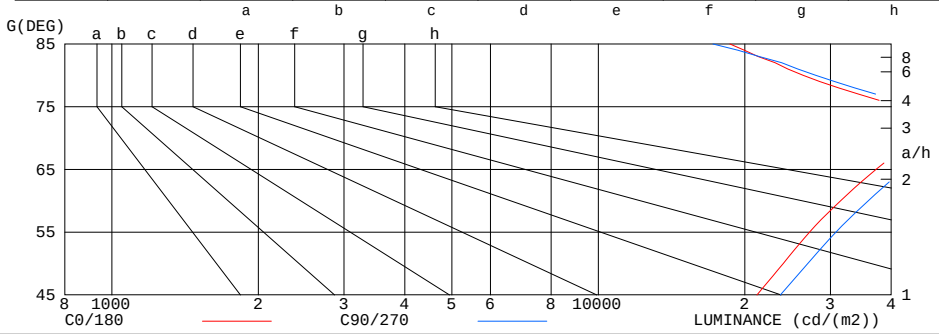
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:12.005V I:0.6257A P:5.0320W PF:0.6699 Freq:60.00Hz Lamp Flux:156.234x1 lm		
NAME: ASD-LSP-FH-LV-5BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 5-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	18650	17208
80	26374	28008
75	41458	45179
70	44199	50004
65	37222	42524
60	31477	35873
55	27173	30781
50	23991	26949
45	21185	23676

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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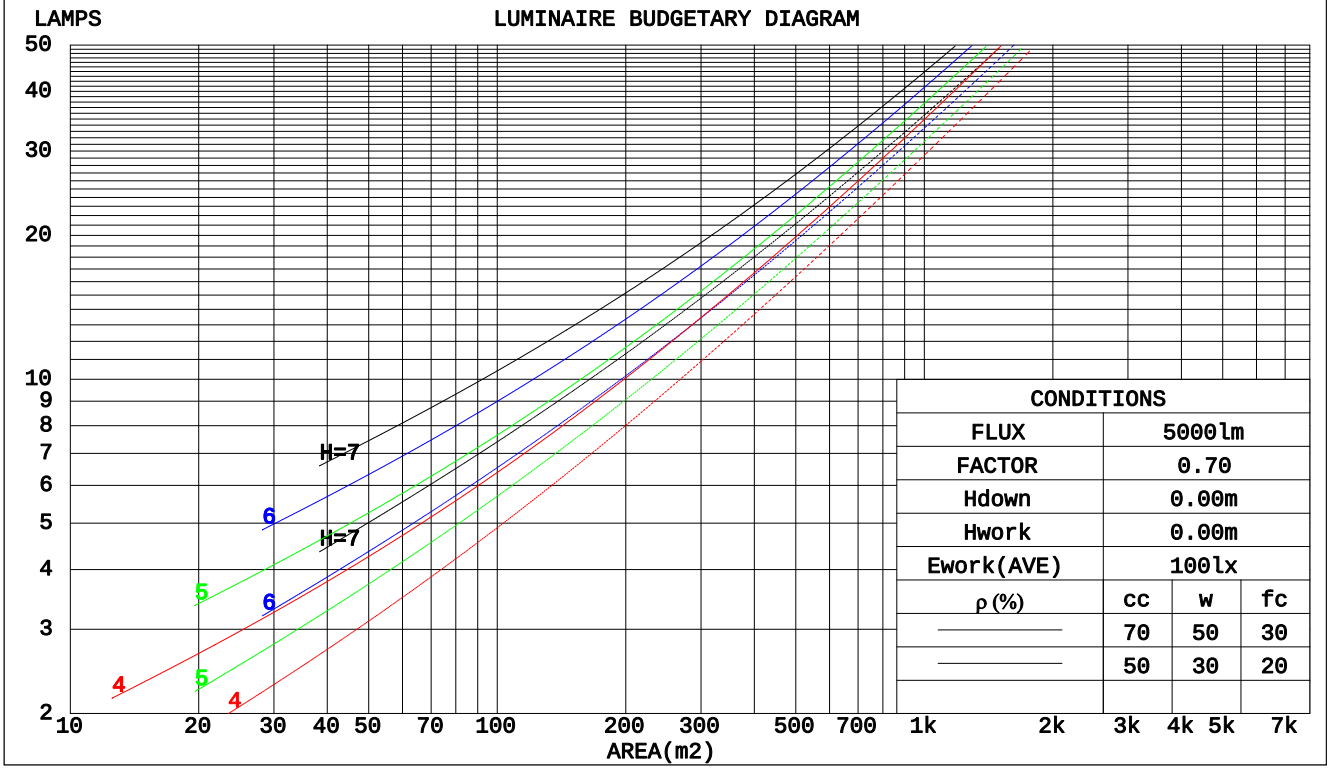
ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.99
1.0	.00	.94	.89	.97	.92	.88	.93	.89	.85	.89	.85	.82	.85	.82	.80	.77
2.0	.83	.74	.67	.81	.73	.66	.77	.70	.65	.73	.68	.63	.70	.65	.61	.59
3.0	.70	.60	.52	.68	.59	.51	.65	.57	.50	.62	.55	.49	.59	.53	.48	.45
4.0	.60	.49	.41	.58	.48	.41	.55	.47	.40	.53	.45	.39	.50	.44	.39	.36
5.0	.52	.41	.33	.51	.40	.33	.48	.39	.32	.46	.38	.32	.44	.37	.31	.29
6.0	.45	.35	.27	.44	.35	.27	.42	.34	.27	.40	.33	.27	.39	.32	.26	.24
7.0	.40	.30	.23	.39	.30	.23	.38	.29	.23	.36	.28	.22	.35	.28	.22	.20
8.0	.36	.26	.20	.35	.26	.20	.34	.25	.19	.33	.25	.19	.31	.24	.19	.17
9.0	.33	.23	.17	.32	.23	.17	.31	.23	.17	.30	.22	.17	.28	.22	.17	.14
10.0	.30	.21	.15	.29	.21	.15	.28	.20	.15	.27	.20	.15	.26	.19	.15	.13



C Range: 0 - 360DEG
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Temperature:24.4DEG
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Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

WEC AND CCEC

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SPEC.: 5-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

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	.388	.221	.070	.381	.217	.069	.367	.211	.067	.354	.204	.066	.342	.198	.064	
2.0	.363	.199	.061	.356	.196	.060	.344	.191	.059	.332	.186	.058	.321	.182	.057	
3.0	.330	.176	.053	.324	.174	.052	.313	.170	.052	.302	.166	.051	.293	.162	.050	
4.0	.299	.156	.046	.294	.154	.045	.284	.150	.045	.274	.147	.044	.266	.144	.044	
5.0	.272	.139	.040	.267	.137	.040	.258	.134	.040	.250	.132	.039	.242	.129	.039	
6.0	.249	.125	.036	.244	.123	.036	.236	.121	.035	.229	.119	.035	.222	.117	.035	
7.0	.228	.113	.032	.225	.112	.032	.217	.110	.032	.211	.108	.031	.204	.106	.031	
8.0	.211	.103	.029	.207	.102	.029	.201	.100	.029	.195	.099	.028	.189	.097	.028	
9.0	.196	.095	.026	.193	.094	.026	.187	.092	.026	.181	.091	.026	.176	.089	.026	
10.0	.182	.087	.024	.180	.087	.024	.174	.085	.024	.169	.084	.024	.165	.083	.024	

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	.195	.195	.195	.166	.166	.166	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.190	.160	.132	.162	.137	.114	.111	.094	.079	.064	.055	.046	.020	.018	.015	
2.0	.186	.136	.094	.159	.117	.081	.109	.081	.056	.063	.047	.033	.020	.015	.011	
3.0	.180	.119	.070	.155	.103	.061	.106	.071	.043	.061	.042	.025	.020	.014	.008	
4.0	.173	.106	.055	.149	.092	.048	.102	.064	.034	.059	.038	.020	.019	.012	.007	
5.0	.166	.096	.045	.143	.083	.039	.098	.058	.028	.057	.034	.016	.018	.011	.005	
6.0	.158	.088	.038	.136	.077	.033	.094	.054	.024	.054	.032	.014	.018	.010	.005	
7.0	.151	.082	.033	.130	.071	.029	.090	.050	.021	.052	.029	.012	.017	.010	.004	
8.0	.144	.076	.030	.124	.066	.026	.086	.046	.018	.050	.027	.011	.016	.009	.004	
9.0	.137	.071	.027	.118	.062	.023	.082	.043	.017	.048	.026	.010	.015	.008	.003	
10.0	.130	.067	.025	.112	.058	.022	.078	.041	.015	.045	.024	.009	.015	.008	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:12.005V I:0.6257A P:5.0320W PF:0.6699 Freq:60.00Hz Lamp Flux:156.234x1 lm		
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MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

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	32.2	34.0	32.5	34.3	34.5	32.5	34.3	32.8	34.6	34.8
	3H	35.3	37.0	35.7	37.3	37.5	35.7	37.4	36.0	37.6	37.9
	4H	36.5	38.1	36.8	38.4	38.7	36.9	38.5	37.2	38.7	39.0
	6H	36.9	38.4	37.2	38.7	39.0	37.2	38.8	37.6	39.1	39.4
	8H	36.9	38.4	37.3	38.7	39.0	37.3	38.8	37.7	39.1	39.4
	12H	36.9	38.4	37.3	38.7	39.0	37.3	38.7	37.7	39.0	39.4
4H	2H	33.5	35.1	33.9	35.4	35.7	33.7	35.3	34.0	35.6	35.9
	3H	36.8	38.2	37.1	38.5	38.8	37.0	38.4	37.3	38.7	39.0
	4H	38.0	39.3	38.4	39.6	40.0	38.2	39.5	38.6	39.8	40.2
	6H	38.4	39.6	38.8	39.9	40.3	38.6	39.8	39.0	40.2	40.6
	8H	38.5	39.6	38.9	40.0	40.4	38.7	39.8	39.1	40.2	40.6
	12H	38.5	39.5	39.0	39.9	40.4	38.7	39.7	39.2	40.2	40.6
8H	4H	38.4	39.5	38.9	39.9	40.3	38.6	39.7	39.0	40.1	40.5
	6H	39.0	39.9	39.4	40.3	40.8	39.2	40.1	39.6	40.5	40.9
	8H	39.1	39.9	39.6	40.4	40.9	39.3	40.1	39.8	40.6	41.0
	12H	39.2	39.9	39.7	40.4	40.9	39.4	40.1	39.9	40.6	41.0
12H	4H	38.4	39.4	38.9	39.8	40.3	38.6	39.6	39.1	40.0	40.4
	6H	39.0	39.8	39.5	40.3	40.7	39.2	40.0	39.7	40.5	40.9
	8H	39.2	39.9	39.7	40.4	40.9	39.4	40.1	39.9	40.5	41.0

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.1 / - 0.1	+ 0.1 / - 0.1
1.5H	+ 0.2 / - 0.4	+ 0.2 / - 0.3
2.0H	+ 0.4 / - 0.5	+ 0.3 / - 0.4

CIE Pub.117, 156.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.4)
Area: 0.0020253 m2

C Range: 0 - 360DEG
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Temperature:24.4DEG
Operators:Water
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

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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	46	32	24	45	32	24	43	31	23	16
0.80	55	41	32	54	41	32	52	40	32	23
1.00	64	50	41	63	50	41	60	52	40	31
1.25	72	59	50	70	58	49	67	56	48	39
1.50	78	65	56	76	64	56	73	62	55	45
2.00	87	76	67	85	74	66	81	72	65	55
2.50	92	82	74	90	81	73	86	78	71	62
3.00	97	88	81	94	86	79	90	83	77	67
4.00	102	95	89	99	93	87	95	89	85	75
5.00	105	99	94	103	97	93	98	93	89	79
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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γ Interval: 1.0DEG
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ISOCANDELA DIAGRAM

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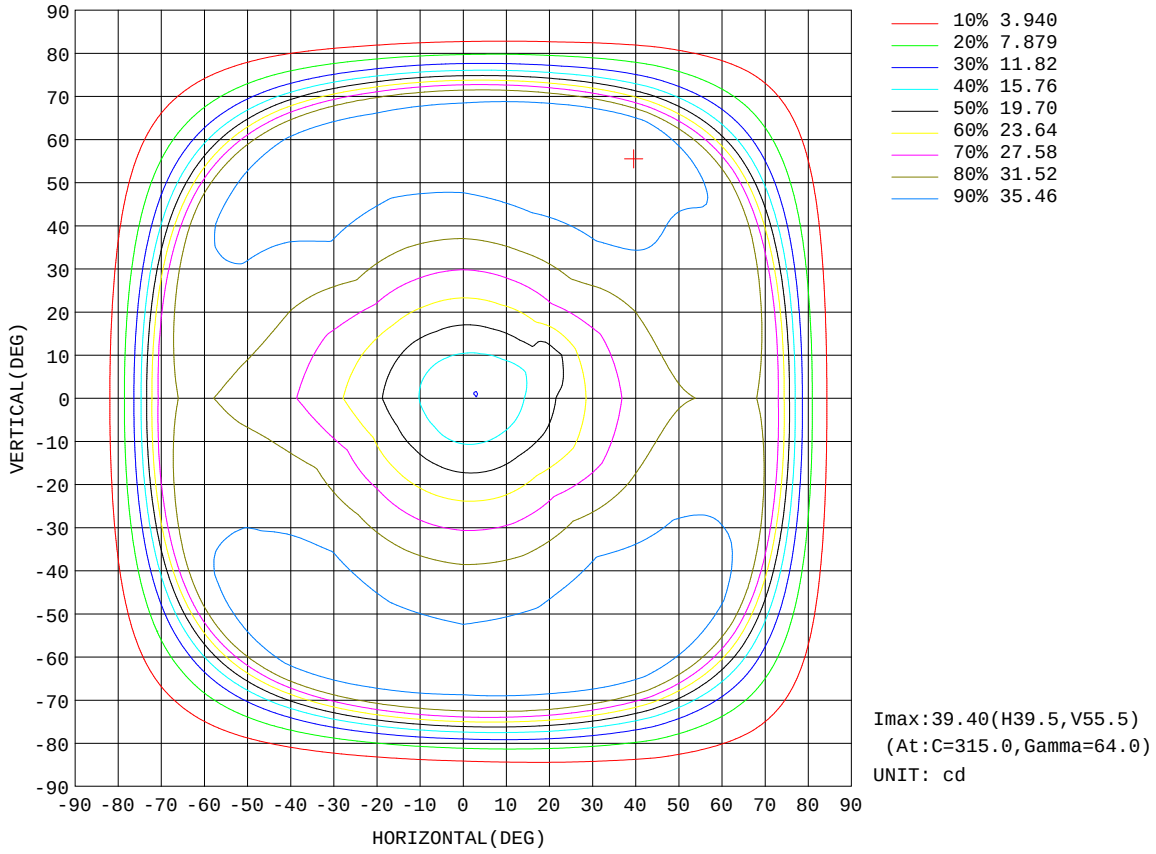

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AAI CURVES

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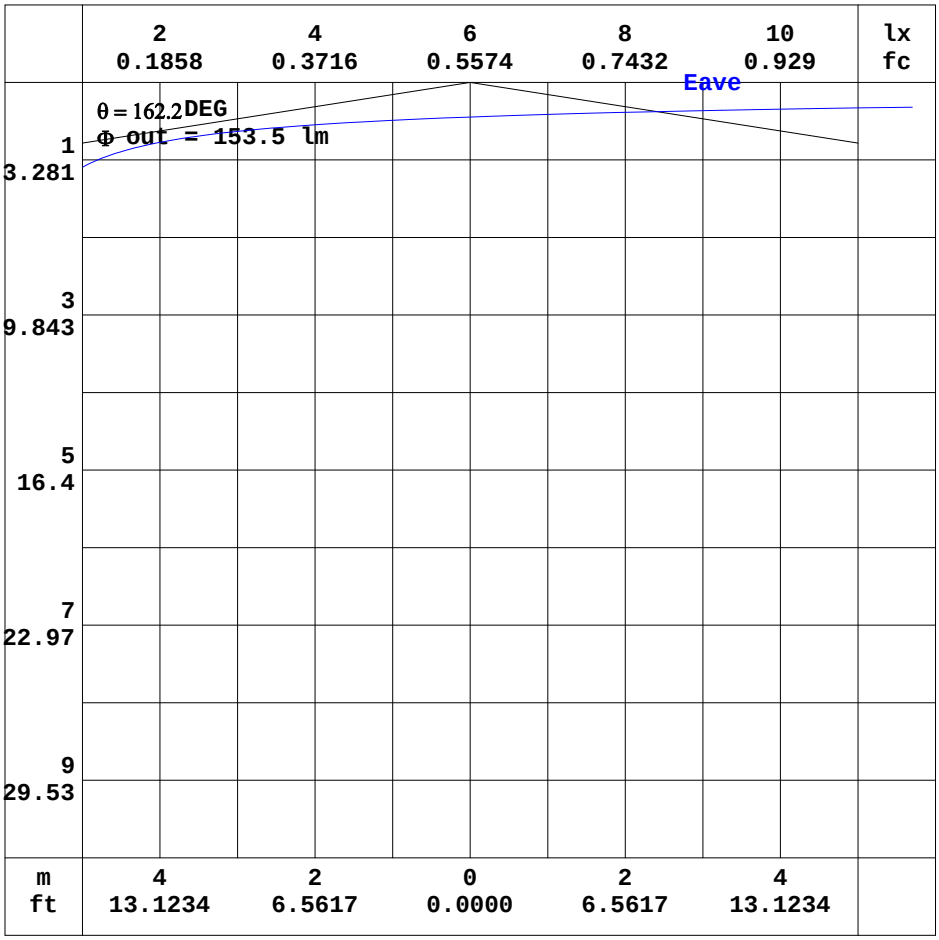
SPEC.: 5-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



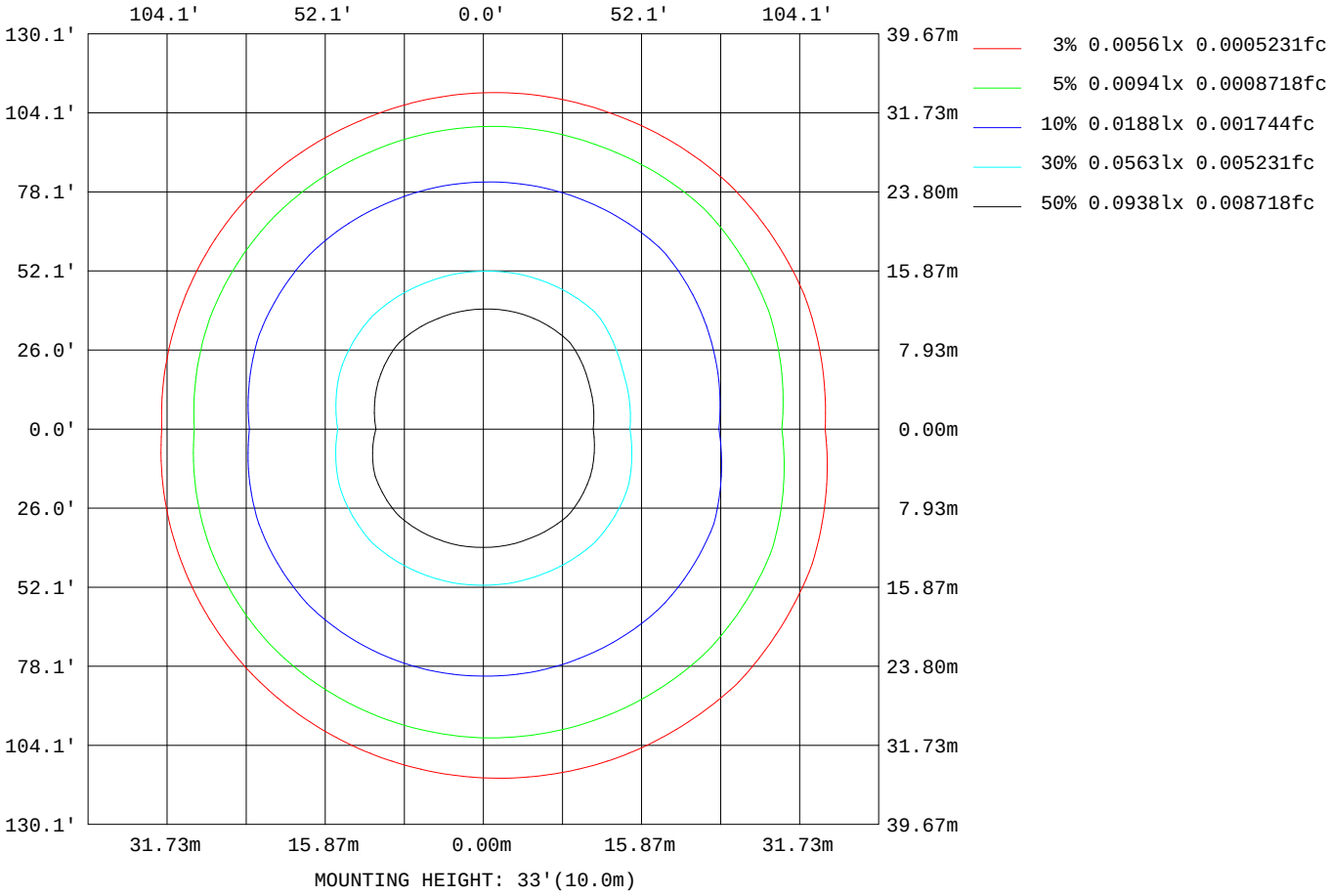
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:12.005V I:0.6257A P:5.0320W PF:0.6699 Freq:60.00Hz Lamp Flux:156.234x1 lm		
NAME: ASD-LSP-FH-LV-5BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 5-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:12.005V I:0.6257A P:5.0320W PF:0.6699 Freq:60.00Hz Lamp Flux:156.234x1 lm		
NAME: ASD-LSP-FH-LV-5BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 5-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

AvgL	cd/m2
L_0~180(65)av	36789
L_0~180(75)av	34562
L_0~180(85)av	13325
L_90~270(65)av	42961
L_90~270(75)av	40624
L_90~270(85)av	13500
L_45(65)av	44404
L_45(75)av	41553
L_45(85)av	14976

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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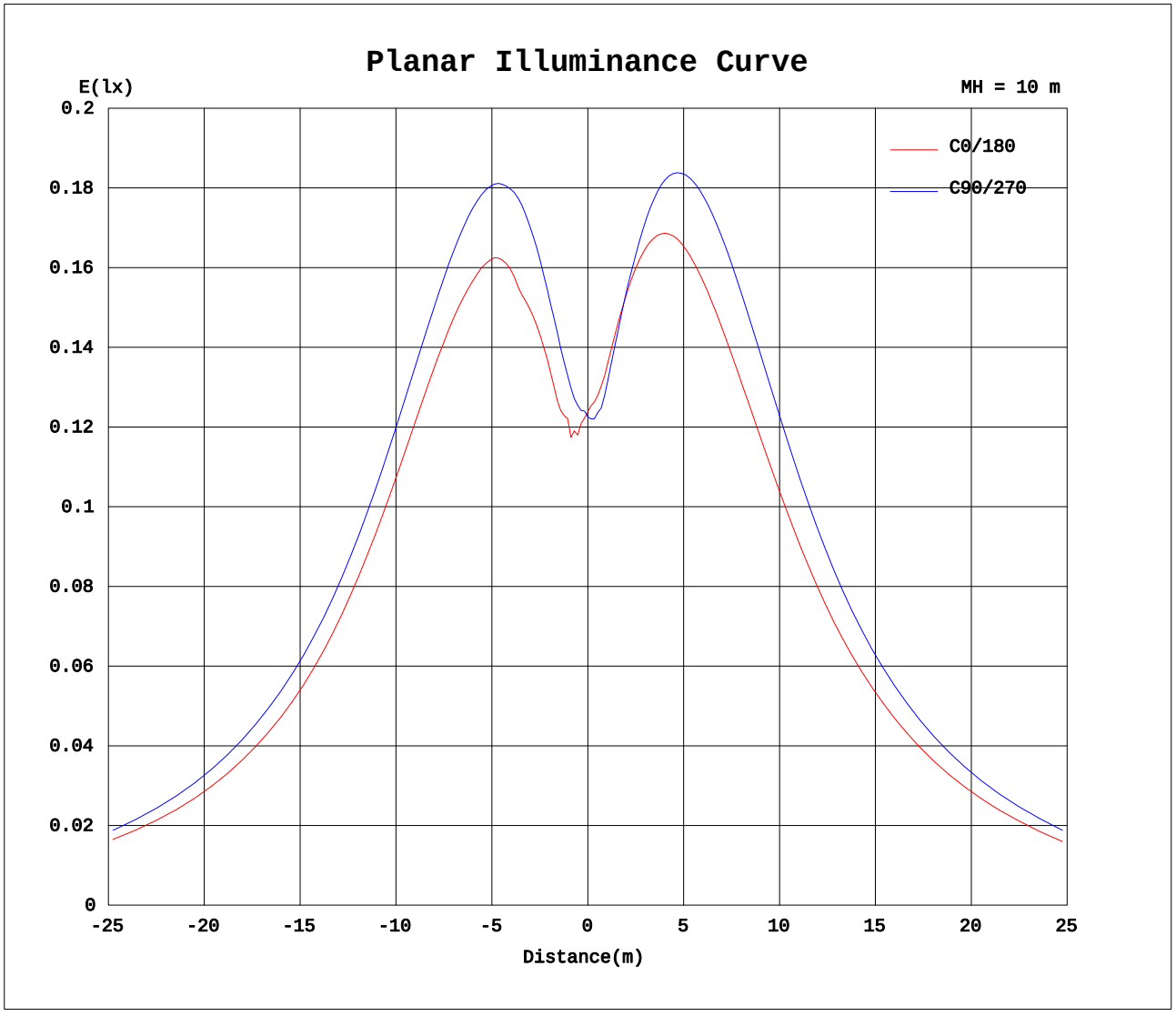
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

Planar Illuminance Curve



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C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:24.4DEG
Operators:Water
Test Date:2025-10-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:47%
Test Distance:2.519m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.005V I:0.6257A P:5.0320W PF:0.6699 Freq:60.00Hz Lamp Flux:156.234x1 lm		
NAME:ASD-LSP-FH-LV-5BK	TYPE: N/A	WEIGHT: N/A
SPEC.: 5-5000k	DIM.: N/A	SERIAL No.: N/A
MFR.: ASD Lighting Corp	SUR.: N/A	Shielding Angle: N/A

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3			
5	11.8	12.5	12.8	13.0	13.1	13.3	13.5	13.6	13.3	13.5	13.3	13.2	12.9	12.7	12.3	12.0			
10	13.5	14.2	14.8	15.2	15.4	15.8	16.1	16.0	15.5	15.7	15.7	15.7	15.6	15.1	14.1	13.3			
15	16.0	16.8	17.6	18.0	18.3	18.7	18.9	18.7	17.8	18.2	18.4	18.7	18.5	18.1	17.2	15.3			
20	18.5	19.6	20.8	21.0	21.4	21.7	21.9	21.9	20.1	21.0	21.5	21.8	21.6	21.4	20.4	18.7			
25	21.6	22.2	24.0	24.1	24.3	24.8	25.2	25.1	22.2	23.6	24.8	24.9	24.7	24.8	24.2	19.9			
30	24.1	24.9	27.3	27.1	27.2	27.7	28.3	28.0	24.2	25.9	28.0	27.9	27.7	27.9	27.8	25.0			
35	26.5	27.6	30.3	29.8	29.9	30.4	31.1	30.5	26.1	27.9	31.0	30.6	30.5	30.8	30.6	27.7			
40	28.6	30.4	32.9	32.2	32.2	32.7	33.5	32.6	27.7	29.9	33.4	32.9	32.9	33.4	32.8	30.0			
45	30.0	32.8	35.0	34.1	33.9	34.4	35.3	34.0	29.1	32.1	35.3	34.7	34.8	35.3	34.8	32.0			
50	30.9	34.5	36.5	35.4	35.1	35.5	36.4	34.8	30.0	33.7	36.4	35.8	35.9	36.7	37.0	33.5			
55	31.3	35.8	37.3	36.1	35.8	36.3	37.2	35.3	30.8	35.1	37.1	36.4	36.6	37.4	38.2	33.8			
60	31.6	36.8	37.9	36.7	36.3	36.8	37.7	35.7	31.4	35.9	37.5	36.9	37.2	38.1	39.1	33.3			
65	31.5	37.2	38.1	36.9	36.4	36.8	37.5	35.7	31.4	35.9	37.2	36.8	37.1	38.2	39.3	34.5			
70	30.3	35.9	36.8	35.5	34.7	34.4	34.4	32.5	28.5	32.3	33.5	33.3	34.0	35.3	36.8	34.3			
75	21.5	26.2	28.0	26.1	23.7	21.4	19.2	16.8	14.7	16.0	17.2	17.7	18.9	20.4	22.7	23.0			
80	9.18	11.1	12.1	11.1	9.85	8.70	7.76	6.67	5.93	6.40	6.77	6.87	7.37	8.12	9.25	9.41			
85	3.26	3.97	4.28	3.77	3.04	2.45	1.94	1.55	1.44	1.43	1.49	1.45	1.73	2.11	2.86	3.24			
90	0.54	0.53	0.54	0.41	0.33	0.35	0.44	0.42	0.41	0.50	0.49	0.35	0.28	0.29	0.46	0.56			
95	0.34	0.41	0.43	0.34	0.30	0.32	0.36	0.34	0.33	0.40	0.40	0.30	0.26	0.27	0.38	0.43			
100	0.21	0.33	0.34	0.30	0.30	0.28	0.27	0.27	0.01	0.32	0.31	0.26	0.23	0.24	0.30	0.35			
105	0.16	0.24	0.25	0.25	0.28	0.23	0.19	0.20	0.04	0.25	0.23	0.21	0.20	0.20	0.22	0.28			
110	0.13	0.19	0.17	0.19	0.18	0.16	0.13	0.16	0.07	0.19	0.17	0.16	0.14	0.15	0.16	0.21			
115	0.10	0.14	0.12	0.14	0.08	0.13	0.11	0.12	0.06	0.15	0.13	0.10	0.07	0.09	0.12	0.16			
120	0.07	0.10	0.12	0.09	0.04	0.06	0.11	0.08	0.05	0.11	0.11	0.07	0.04	0.07	0.10	0.12			
125	0.05	0.07	0.10	0.04	0.03	0.04	0.08	0.07	0.04	0.08	0.07	0.06	0.03	0.04	0.07	0.08			
130	0.04	0.07	0.05	0.04	0.03	0.03	0.04	0.06	0.03	0.04	0.06	0.03	0.02	0.03	0.05	0.05			
135	0.03	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.02	0.03	0.03	0.03	0.02	0.02	0.03	0.03			
140	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
145	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
150	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02			
155	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
160	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
165	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
170	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02			
175	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
180	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			

C Range: 0 - 360DEG
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