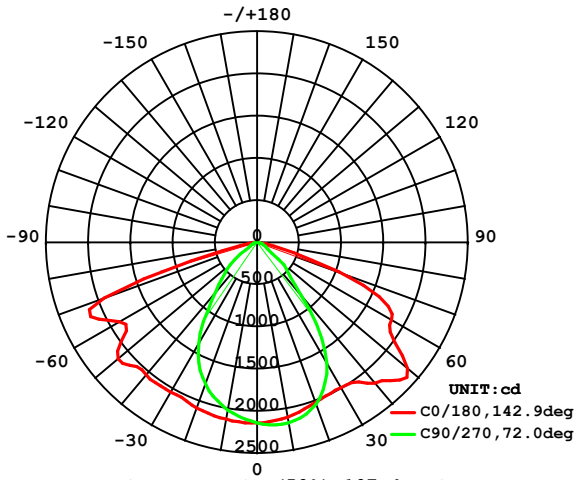
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.4376A P:49.72W PF:0.9470 Lamp Flux:6052.45x1 lm		
NAME: ASD-LSBD-CORE-50N50	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

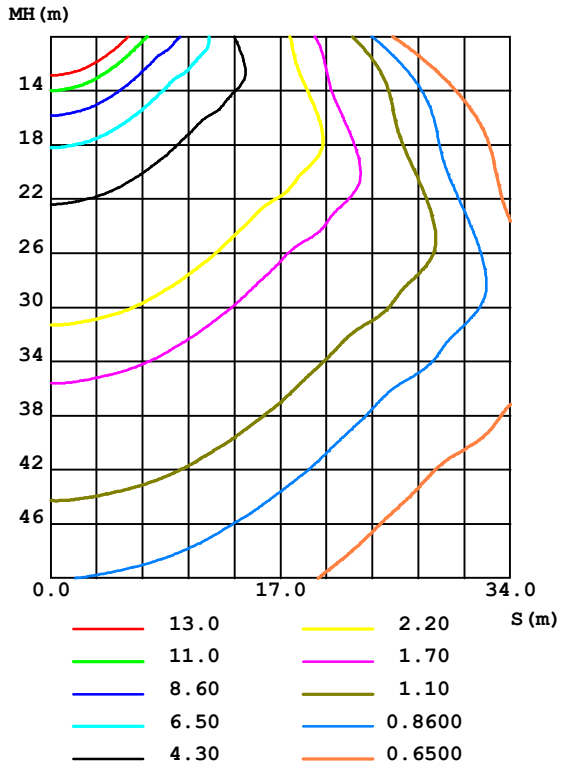
DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.73 lm/W			
MODEL ASD-LSBD-CORE-50N50		Imax(cd)	2395	S/MH(C0/180)	1.49
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.09
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6052.5	η UP,DN(C0-180)	0.2,49.1
NOMINAL FLUX(lm)	6052.45	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,50.6
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	η down(%)	99.7	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):107.4 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-03-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

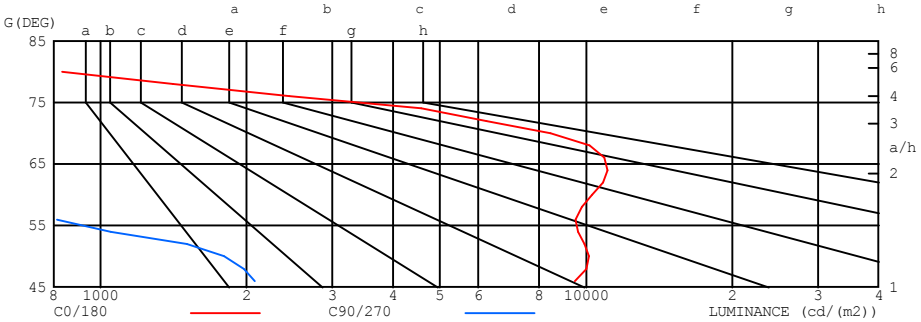
ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	2104	2172	2131	2017					0- 10	202.7	202.7	3.35,3.35
20	2019	2041	2090	1791					10- 20	580.0	782.7	12.9,12.9
30	1987	1654	2050	1387					20- 30	870.3	1653	27.3,27.3
40	2177	821.5	2051	776.1					30- 40	1012	2665	44,44
50	2331	418.0	2156	420.8					40- 50	1075	3740	61.8,61.8
60	1842	137.7	1881	101.4					50- 60	995.0	4735	78.2,78.2
70	1035	64.96	1930	52.18					60- 70	951.9	5687	94,94
80	51.86	22.62	78.25	18.09					70- 80	327.3	6014	99.4,99.4
90	10.19	1.325	3.397	0.3352					80- 90	17.95	6032	99.7,99.7
100	5.914	0.4985	0.8823	0.1751					90-100	2.837	6035	99.7,99.7
110	4.807	0.4728	2.008	0.2739					100-110	1.815	6037	99.7,99.7
120	5.447	0.8931	3.321	0.6123					110-120	2.246	6039	99.8,99.8
130	6.240	1.805	4.721	1.521					120-130	2.731	6042	99.8,99.8
140	6.830	3.133	4.928	2.729					130-140	3.096	6045	99.9,99.9
150	6.865	4.307	5.429	3.657					140-150	3.002	6048	99.9,99.9
160	6.331	4.935	5.187	4.724					150-160	2.412	6050	100,100
170	5.464	5.635	5.222	5.477					160-170	1.521	6052	100,100
180	5.896	6.002	5.931	5.967					170-180	0.5345	6052	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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	679	400
80	834	360
75	4868	403
70	8453	524
65	11479	725
60	10295	760
55	9852	1075
50	10135	1796
45	9005	2253

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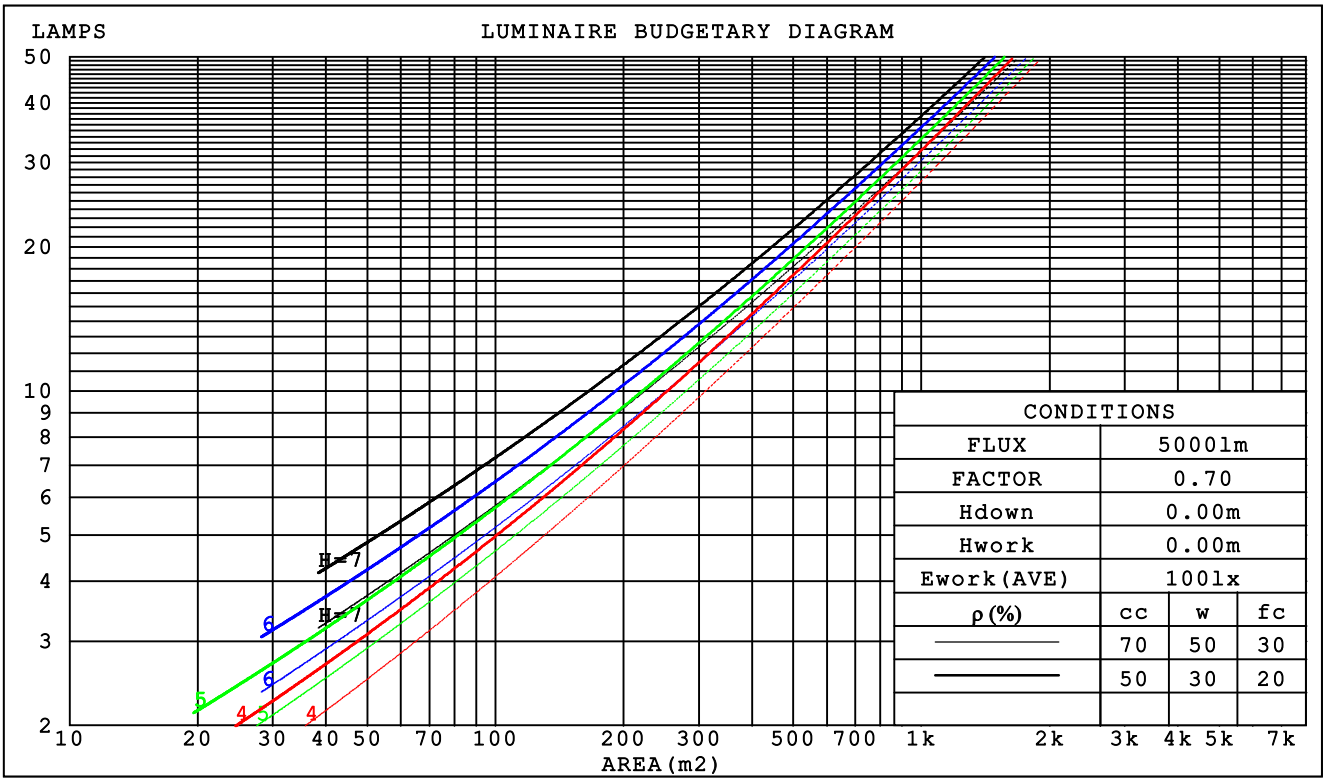
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.4376A P:49.72W PF:0.9470 Lamp Flux:6052.45x1 lm		
NAME: ASD-LSBD-CORE-50N50	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:027
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			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	.00
1.0	1.05	1.01	.97	1.02	.99	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.85
2.0	.91	.84	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.55	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



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Test Speed: HIGH
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

WEC AND CCEC

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NAME: ASD-LSBD-CORE-50N50	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:027
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 Coeffcients(WEC)												
0.0																
1.0	.293	.167	.053	.286	.163	.052	.273	.157	.050	.261	.150	.048	.249	.144	.047	
2.0	.285	.156	.048	.278	.153	.047	.267	.148	.046	.256	.143	.045	.246	.139	.044	
3.0	.267	.142	.043	.261	.140	.042	.251	.136	.041	.241	.132	.041	.232	.129	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.209	.111	.033	.202	.108	.032	
6.0	.213	.107	.031	.210	.106	.030	.202	.104	.030	.195	.101	.030	.189	.099	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.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	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.182	.159	.138	.155	.136	.119	.106	.094	.082	.061	.054	.048	.020	.017	.015	
2.0	.174	.135	.101	.149	.116	.088	.102	.080	.061	.059	.047	.036	.019	.015	.012	
3.0	.166	.117	.077	.143	.101	.067	.098	.070	.047	.057	.041	.028	.018	.013	.009	
4.0	.159	.104	.061	.137	.089	.053	.094	.062	.037	.054	.037	.022	.017	.012	.007	
5.0	.152	.093	.050	.130	.081	.043	.090	.056	.031	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.042	.124	.073	.036	.086	.051	.026	.050	.030	.015	.016	.010	.005	
7.0	.138	.078	.036	.119	.068	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.132	.072	.031	.113	.063	.027	.078	.044	.019	.046	.026	.012	.015	.008	.004	
9.0	.126	.067	.028	.108	.058	.024	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.120	.063	.025	.103	.055	.022	.072	.038	.016	.042	.023	.009	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-03-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

Uncorrected UGR Table

Test:U:120.0V I:0.4376A P:49.72W PF:0.9470 Lamp Flux:6052.45x1 lm		
NAME: ASD-LSBD-CORE-50N50	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:027
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	21.8	23.3	22.1	23.5	23.7	15.3	16.9	15.6	17.1	17.3
3H	23.7	25.1	24.0	25.3	25.6	15.9	17.3	16.2	17.5	17.8
4H	23.8	25.1	24.1	25.4	25.7	15.8	17.2	16.2	17.4	17.7
6H	23.7	25.0	24.1	25.2	25.5	15.8	17.0	16.1	17.3	17.6
8H	23.7	24.9	24.0	25.2	25.5	15.7	16.9	16.1	17.2	17.5
12H	23.6	24.8	24.0	25.1	25.4	15.7	16.8	16.0	17.1	17.4
4H 2H	22.0	23.4	22.4	23.6	23.9	17.5	18.8	17.8	19.1	19.4
3H	24.0	25.1	24.3	25.4	25.7	18.1	19.3	18.5	19.6	19.9
4H	24.1	25.2	24.5	25.5	25.8	18.1	19.2	18.5	19.5	19.8
6H	24.0	25.0	24.4	25.3	25.7	18.0	19.0	18.4	19.3	19.7
8H	24.0	24.9	24.4	25.2	25.6	18.0	18.9	18.4	19.2	19.6
12H	23.9	24.7	24.4	25.1	25.5	18.0	18.8	18.4	19.1	19.6
8H 4H	24.0	24.9	24.4	25.2	25.6	18.4	19.2	18.8	19.6	20.0
6H	23.9	24.7	24.4	25.1	25.5	18.3	19.0	18.8	19.4	19.9
8H	23.9	24.5	24.4	25.0	25.4	18.3	18.9	18.8	19.4	19.8
12H	23.9	24.4	24.4	24.9	25.4	18.3	18.8	18.8	19.3	19.7
12H 4H	24.0	24.8	24.4	25.1	25.6	18.3	19.1	18.8	19.5	19.9
6H	23.9	24.5	24.4	25.0	25.4	18.3	18.9	18.8	19.4	19.8
8H	23.9	24.4	24.4	24.9	25.4	18.3	18.8	18.8	19.3	19.7

Variations with the observer position at spacings:		
S = 1.0H	+ 0.1 / - 0.1	+ 0.6 / - 0.7
1.5H	+ 0.4 / - 1.0	+ 0.9 / - 0.8
2.0H	+ 1.3 / - 2.1	+ 0.9 / - 2.2

CIE Pub.117 Corrected 6052 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.3)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-03-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.4376A P:49.72W PF:0.9470 Lamp Flux:6052.45x1 lm		
NAME: ASD-LSBD-CORE-50N50	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:027
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) x RCR = 5									
k = 0.60	57	46	39	57	46	39	55	45	38	32
0.80	67	56	48	66	55	48	65	54	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	87	80	93	85	79	90	83	78	70
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	91	101	94	90	97	92	87	79
4.00	107	101	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
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γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
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ISOCANDELA DIAGRAM

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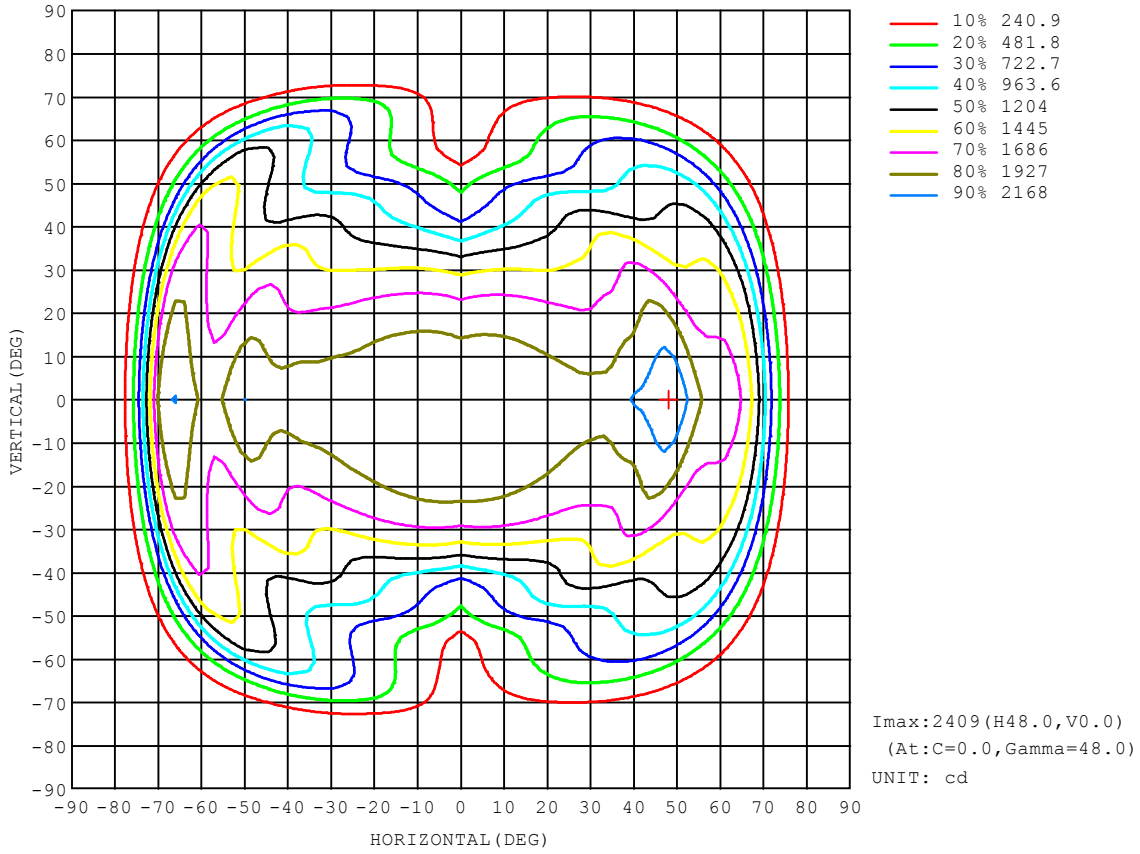

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Remarks:

E:\2026年研发中心\袁浩\美国ASD-S6-50W-70W-120W-175W-120V\ASD-LSBD-CORE-50N50.GOS

AAI Figure

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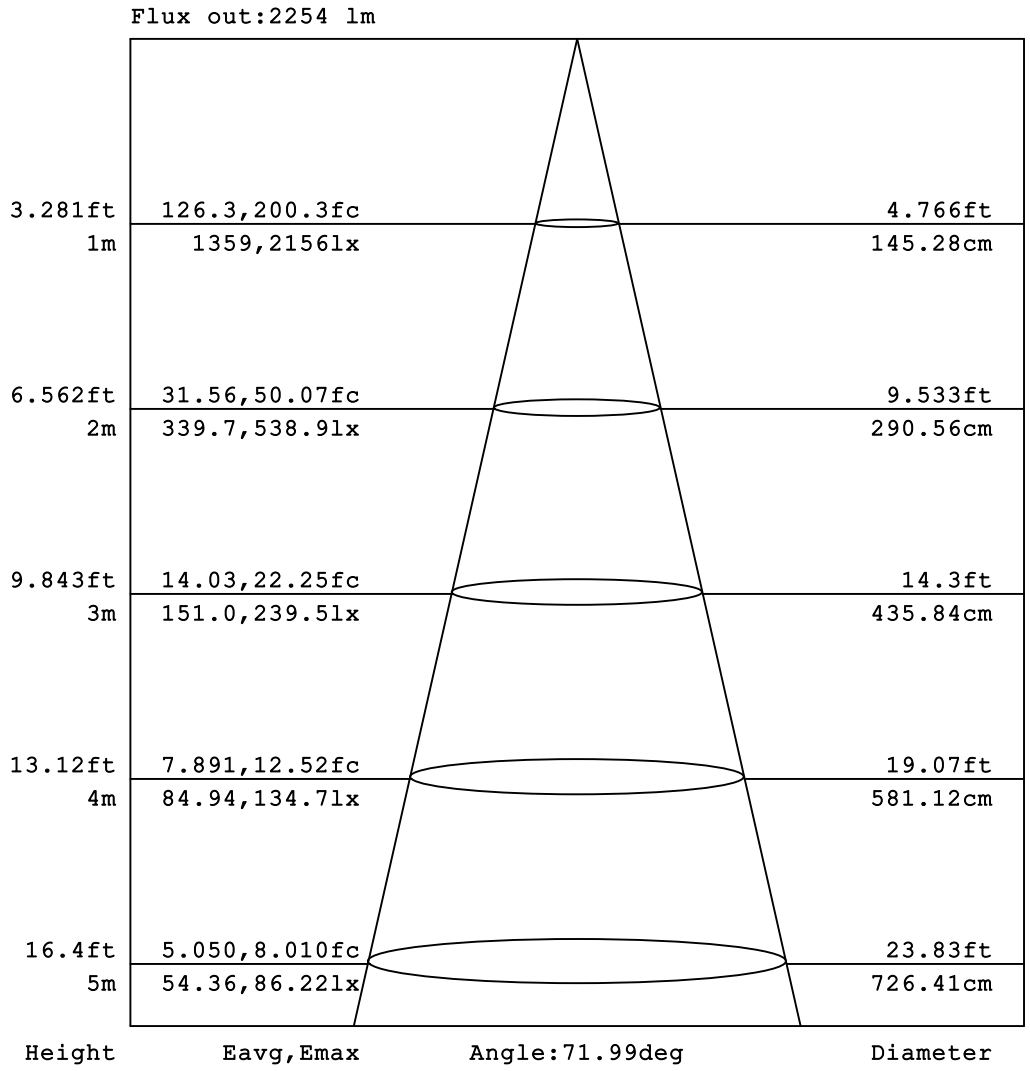

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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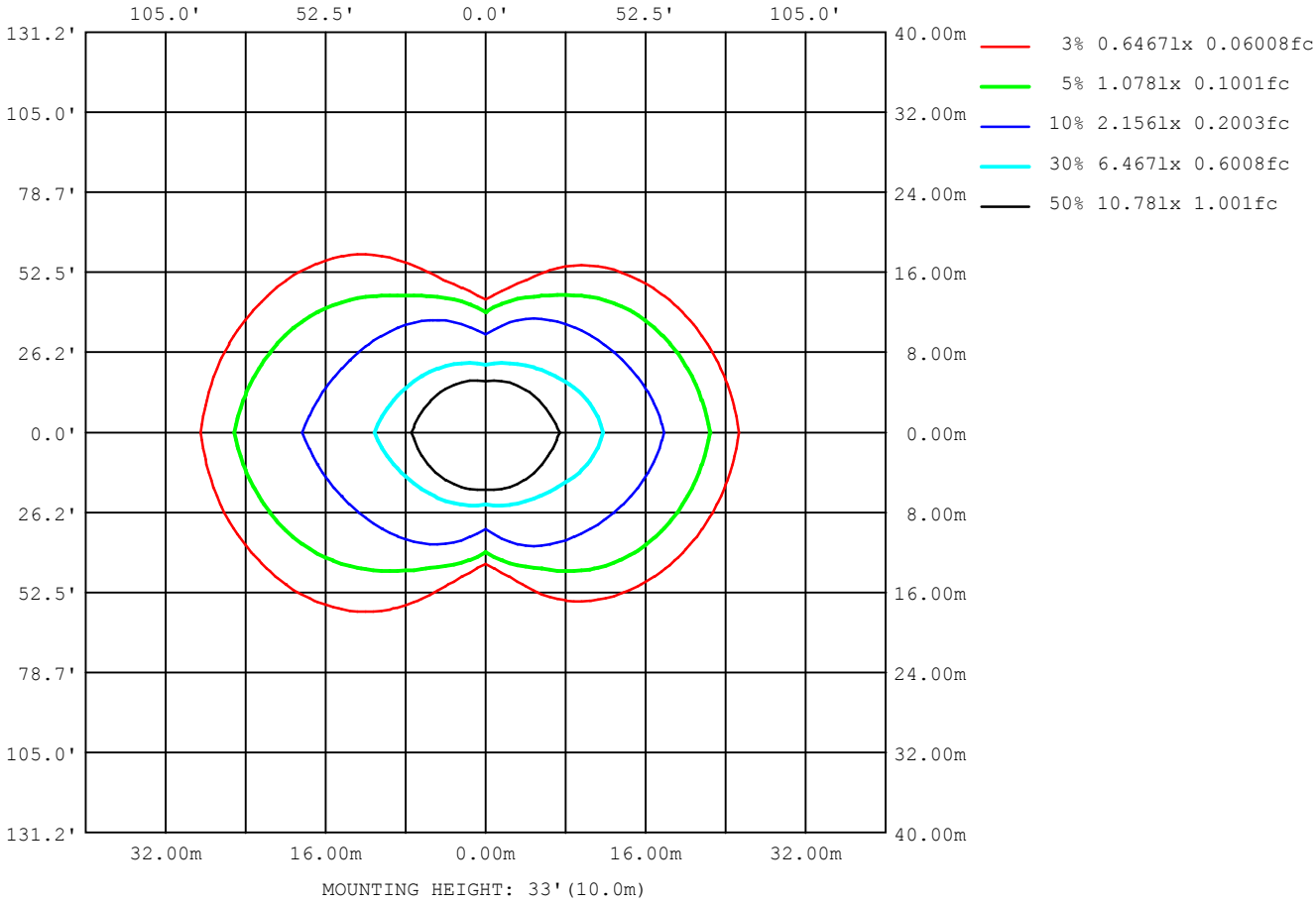

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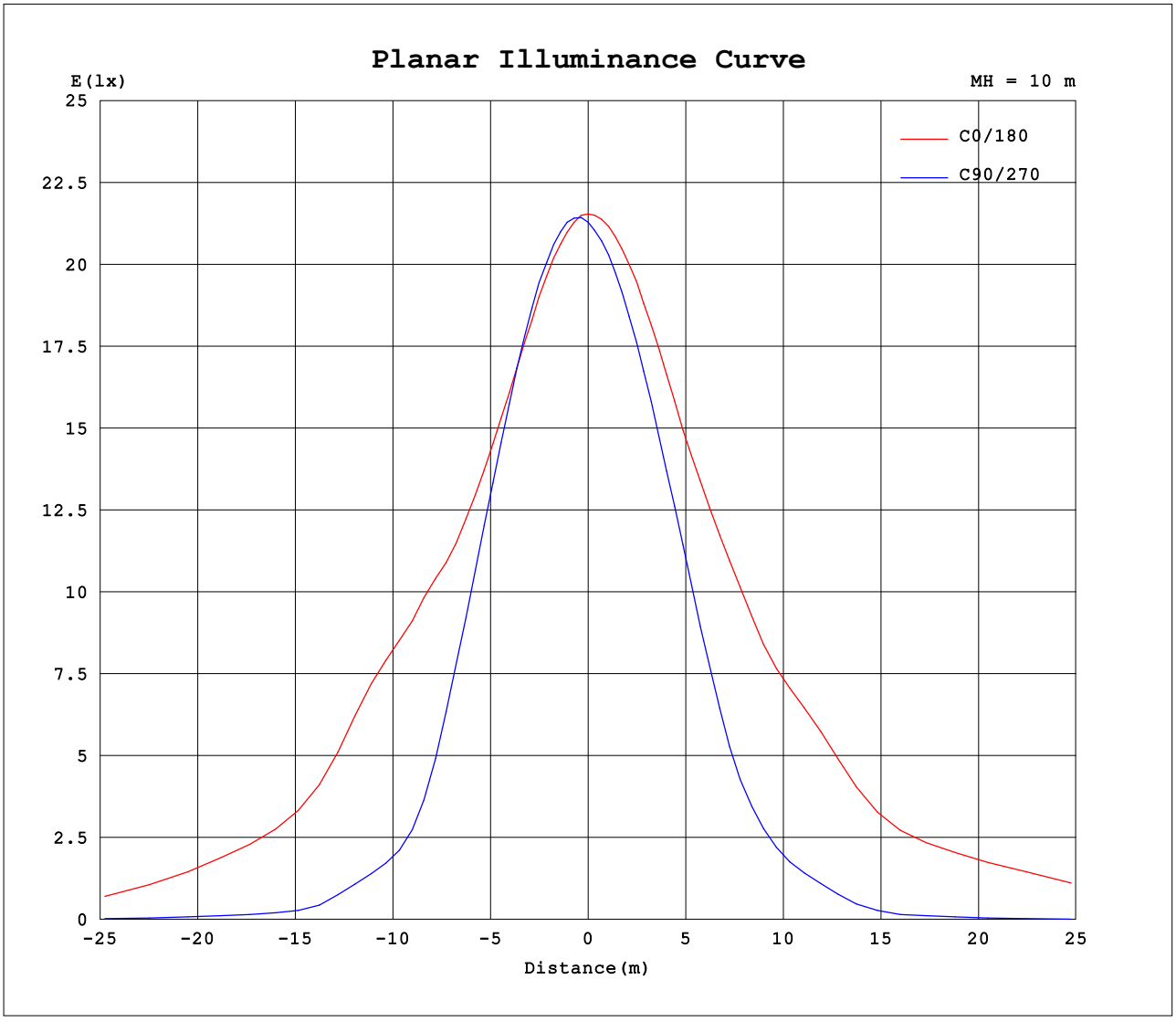
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-03-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.4376A P:49.72W PF:0.9470 Lamp Flux:6052.45x1 lm		
NAME: ASD-LSBD-CORE-50N50	TYPE:	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	90	180	270															
0	2143	2143	2143	2143															
5	2132	2170	2142	2100															
10	2104	2172	2131	2017															
15	2072	2142	2119	1941															
20	2019	2041	2090	1791															
25	1998	1923	2064	1665															
30	1987	1654	2050	1387															
35	2007	1379	2050	1142															
40	2177	821	2051	776															
45	2279	577	2053	602															
50	2331	418	2156	421															
55	2022	223	1987	245															
60	1842	138	1881	101															
65	1736	111	2083	79.8															
70	1035	65.0	1930	52.2															
75	451	37.8	812	33.8															
80	51.9	22.6	78.3	18.1															
85	21.2	12.6	25.8	7.53															
90	10.2	1.33	3.40	0.34															
95	9.01	0.66	0.97	0.23															
100	5.91	0.50	0.88	0.18															
105	4.53	0.39	1.23	0.21															
110	4.81	0.47	2.01	0.27															
115	5.34	0.65	2.56	0.31															
120	5.45	0.89	3.32	0.61															
125	5.72	1.19	3.89	0.93															
130	6.24	1.80	4.72	1.52															
135	6.48	2.31	4.88	2.05															
140	6.83	3.13	4.93	2.73															
145	6.97	3.64	5.14	3.20															
150	6.86	4.31	5.43	3.66															
155	6.69	4.71	5.31	4.02															
160	6.33	4.93	5.19	4.72															
165	5.95	5.16	5.20	5.14															
170	5.46	5.63	5.22	5.48															
175	5.48	6.00	5.34	5.60															
180	5.90	6.00	5.93	5.97															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-03-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks: