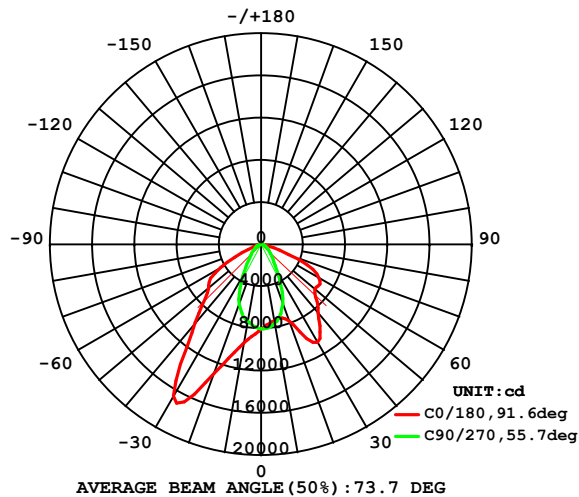


LUMINAIRE PHOTOMETRIC TEST REPORT

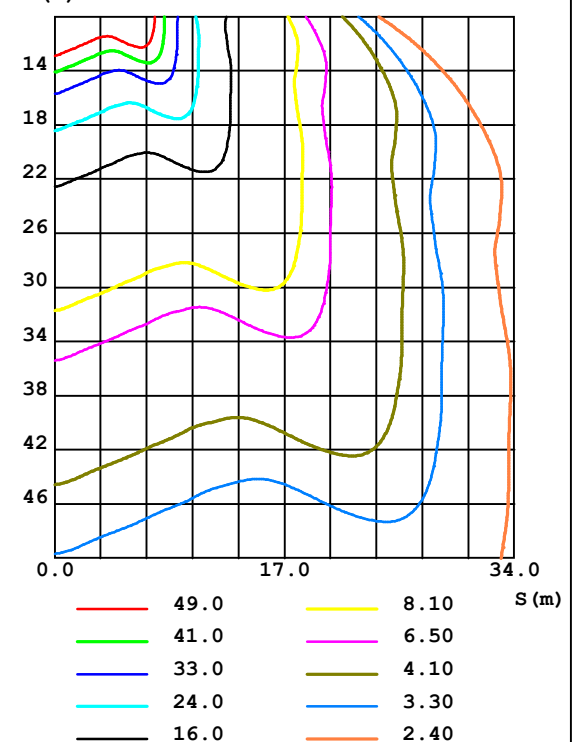
Test:U:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.68 lm/W			
MODEL	ASD-LSBD-CORE-175N50	I _{max} (cd)	17047	S/MH (C0/180)	1.59
NOMINAL POWER (W)	174	LOR (%)	100.0	S/MH (C90/270)	0.84
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	20854	η UP, DN (C0-180)	0.2, 48.4
NOMINAL FLUX (lm)	20853.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 51.3
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	119.9	η down (%)	99.7	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



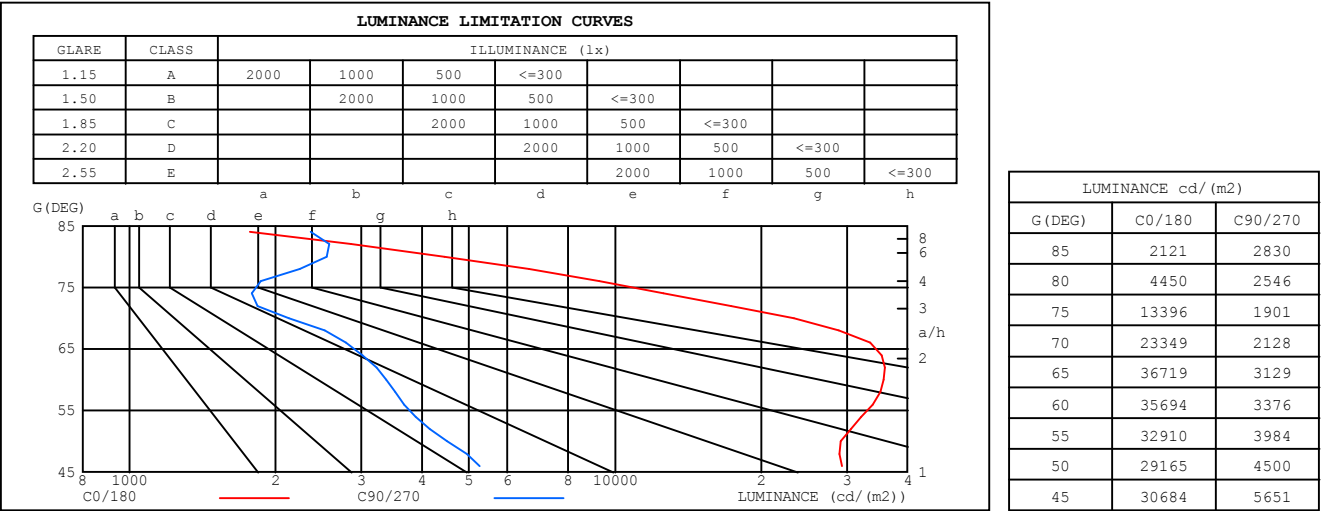
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-03-14

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	734.9	762.7	951.6	743.7					0- 10	764.3	764.3	3.66,3.66
20	769.4	603.7	1299	610.3					10- 20	2291	3055	14.7,14.7
30	1075	330.7	1664	356.8					20- 30	4043	7098	34,34
40	846.7	173.2	973.1	178.0					30- 40	4331	11430	54.8,54.8
50	665.8	105.6	654.1	100.5					40- 50	3528	14958	71.7,71.7
60	633.8	61.62	442.4	60.46					50- 60	3168	18126	86.9,86.9
70	283.6	26.57	83.41	30.00					60- 70	2081	20207	96.9,96.9
80	27.44	16.13	17.30	12.34					70- 80	520.0	20727	99.4,99.4
90	0.4500	0.0614	0.7273	0.0541					80- 90	72.28	20799	99.7,99.7
100	0.4415	0.0912	0.3839	0.0683					90-100	2.499	20802	99.8,99.8
110	0.8986	0.1474	0.6910	0.1034					100-110	3.672	20805	99.8,99.8
120	1.286	0.2542	0.9367	0.1806					110-120	5.623	20811	99.8,99.8
130	1.955	0.4368	1.337	0.2961					120-130	7.209	20818	99.8,99.8
140	2.661	0.8227	1.814	0.5063					130-140	9.713	20828	99.9,99.9
150	2.639	1.299	1.884	0.8658					140-150	9.848	20838	99.9,99.9
160	2.602	1.740	2.059	1.294					150-160	8.310	20846	100,100
170	2.372	2.078	2.137	1.789					160-170	5.748	20852	100,100
180	2.051	2.130	2.093	2.062					170-180	1.996	20854	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		



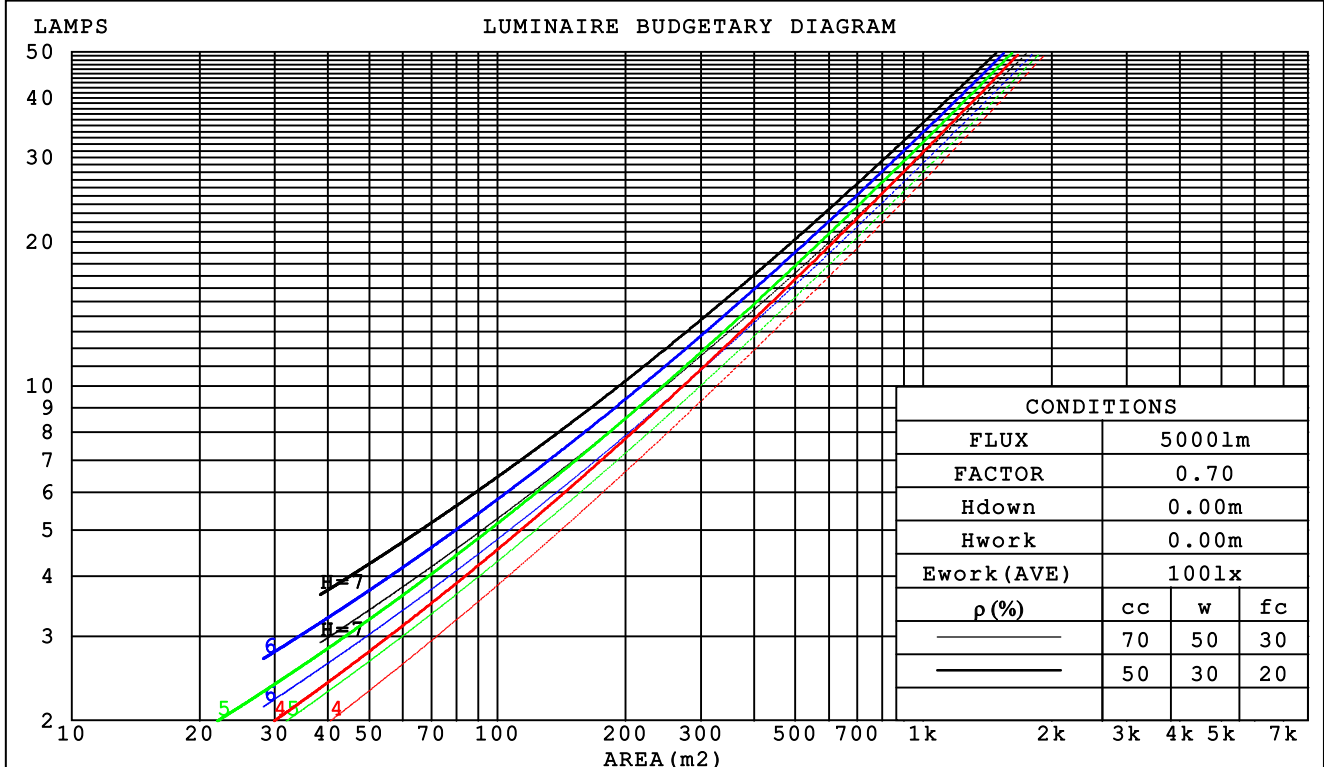
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-03-14

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
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															



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:

WEC AND CCEC

Test:U:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.261	.148	.047	.254	.145	.046	.241	.138	.044	.229	.132	.042	.217	.126	.041		
2.0	.254	.139	.043	.248	.137	.042	.237	.132	.041	.226	.127	.040	.216	.122	.039		
3.0	.241	.128	.038	.236	.126	.038	.226	.122	.037	.216	.118	.036	.207	.115	.036		
4.0	.226	.118	.035	.222	.116	.034	.213	.113	.034	.204	.110	.033	.197	.107	.033		
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.193	.102	.030	.186	.099	.030		
6.0	.199	.100	.029	.195	.099	.028	.188	.096	.028	.181	.094	.028	.175	.092	.027		
7.0	.187	.092	.026	.183	.091	.026	.177	.089	.026	.171	.088	.026	.165	.086	.025		
8.0	.176	.086	.024	.173	.085	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023		
9.0	.165	.080	.022	.163	.079	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022		
10.0	.156	.075	.021	.154	.074	.021	.149	.073	.021	.145	.072	.020	.141	.071	.020		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.179	.159	.140	.153	.136	.121	.105	.094	.083	.060	.054	.049	.019	.017	.016	
2.0	.169	.134	.105	.145	.115	.090	.099	.080	.063	.057	.046	.037	.018	.015	.012	
3.0	.161	.116	.080	.138	.100	.070	.095	.070	.049	.055	.041	.029	.018	.013	.009	
4.0	.153	.103	.064	.132	.089	.055	.090	.062	.039	.052	.036	.023	.017	.012	.008	
5.0	.146	.092	.052	.125	.080	.045	.086	.056	.032	.050	.033	.019	.016	.011	.006	
6.0	.139	.083	.043	.120	.072	.038	.083	.051	.027	.048	.030	.016	.015	.010	.005	
7.0	.133	.076	.037	.114	.066	.032	.079	.046	.023	.046	.027	.014	.015	.009	.004	
8.0	.127	.071	.032	.109	.061	.028	.076	.043	.020	.044	.025	.012	.014	.008	.004	
9.0	.121	.066	.028	.104	.057	.025	.072	.040	.018	.042	.024	.010	.014	.008	.003	
10.0	.116	.061	.025	.100	.053	.022	.069	.038	.016	.040	.022	.009	.013	.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:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm										
NAME: ASD-LSBD-CORE-175N50					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	26.0	27.4	26.3	27.6	27.8	19.3	20.7	19.6	20.9	21.1
3H	27.5	28.8	27.8	29.0	29.2	19.8	21.1	20.1	21.4	21.6
4H	27.5	28.8	27.9	29.0	29.3	19.8	21.0	20.1	21.3	21.6
6H	27.5	28.6	27.8	28.9	29.2	19.8	21.0	20.1	21.2	21.5
8H	27.4	28.5	27.8	28.8	29.1	19.8	20.9	20.2	21.2	21.5
12H	27.4	28.4	27.7	28.7	29.0	19.8	20.8	20.1	21.1	21.4
4H 2H	26.2	27.4	26.5	27.7	27.9	21.5	22.7	21.8	23.0	23.2
3H	27.7	28.7	28.0	29.0	29.3	22.0	23.1	22.4	23.4	23.7
4H	27.8	28.8	28.2	29.1	29.4	22.0	23.0	22.4	23.3	23.6
6H	27.8	28.6	28.2	29.0	29.3	22.0	22.9	22.4	23.2	23.6
8H	27.7	28.5	28.2	28.9	29.3	22.0	22.8	22.4	23.2	23.6
12H	27.7	28.4	28.1	28.8	29.2	22.0	22.7	22.4	23.1	23.5
8H 4H	27.7	28.5	28.1	28.9	29.2	22.3	23.0	22.7	23.4	23.8
6H	27.7	28.3	28.1	28.7	29.2	22.3	22.9	22.7	23.3	23.8
8H	27.7	28.2	28.1	28.7	29.1	22.3	22.9	22.8	23.3	23.7
12H	27.6	28.1	28.1	28.6	29.0	22.3	22.8	22.8	23.2	23.7
12H 4H	27.7	28.4	28.1	28.8	29.2	22.2	22.9	22.7	23.3	23.7
6H	27.7	28.2	28.1	28.7	29.1	22.3	22.8	22.7	23.3	23.7
8H	27.6	28.1	28.1	28.6	29.0	22.3	22.8	22.8	23.2	23.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.5 / - 0.6				
1.5H	+ 0.7 / - 0.5					+ 0.5 / - 0.9				
2.0H	+ 1.6 / - 2.6					+ 1.4 / - 2.6				

CIE Pub.117 Corrected 20854 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.6)

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:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

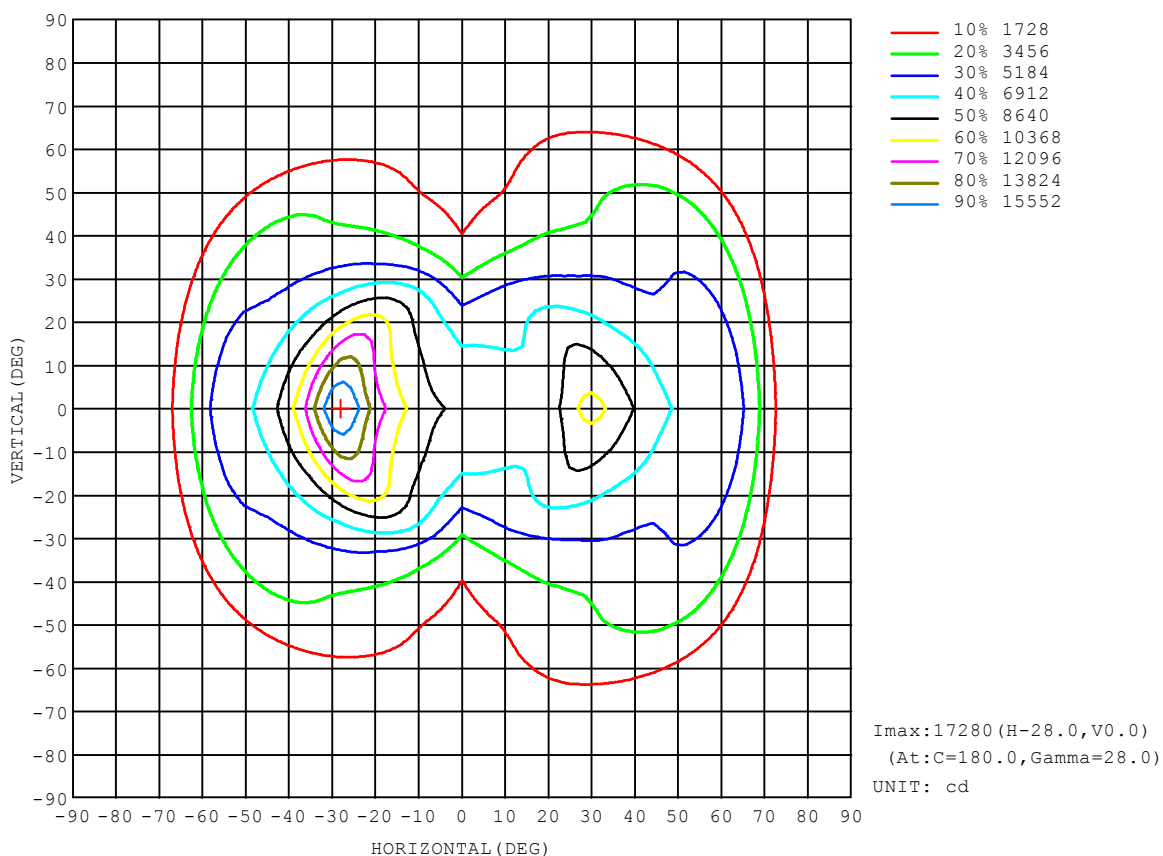
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	63	52	46	61	52	46	40
0.80	73	63	56	72	62	56	71	62	56	49
1.00	81	72	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	72	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	92	86	97	91	85	94	88	84	77
2.50	102	96	91	100	94	90	97	92	88	80
3.00	105	100	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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:

ISOCANDELA DIAGRAM

Test:U:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

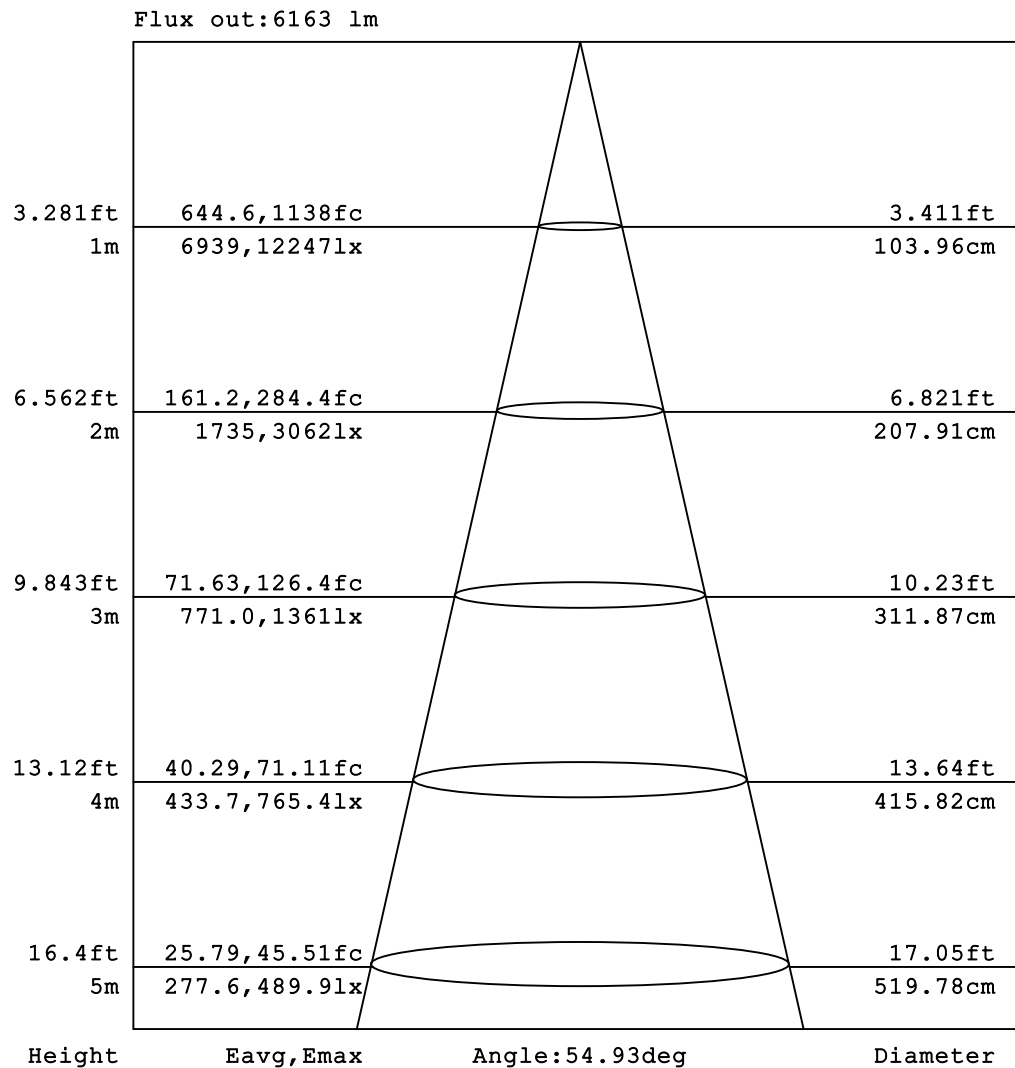


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-03-14

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:

AAI Figure

Test:U:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



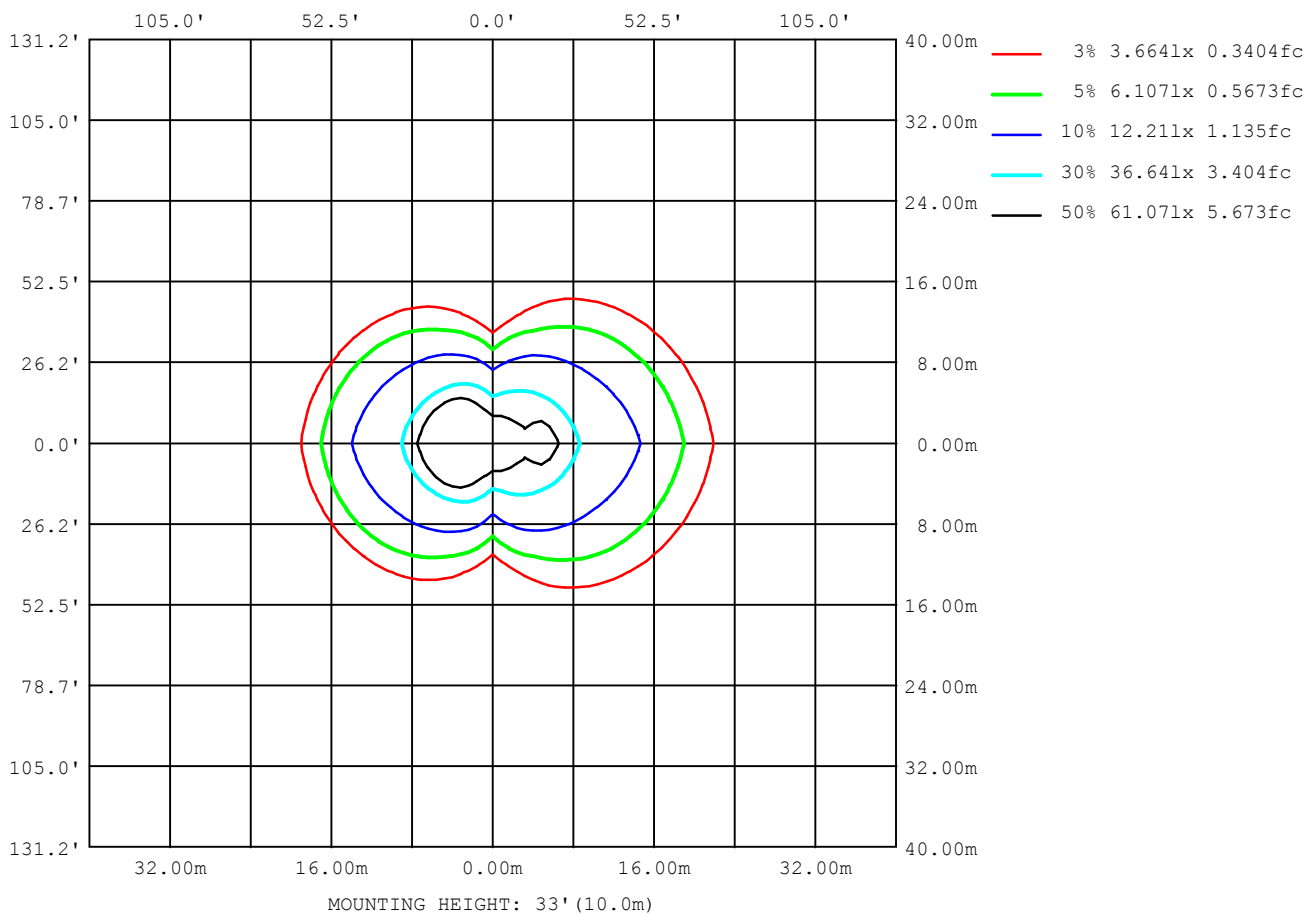
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 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:

ISOLUX DIAGRAM

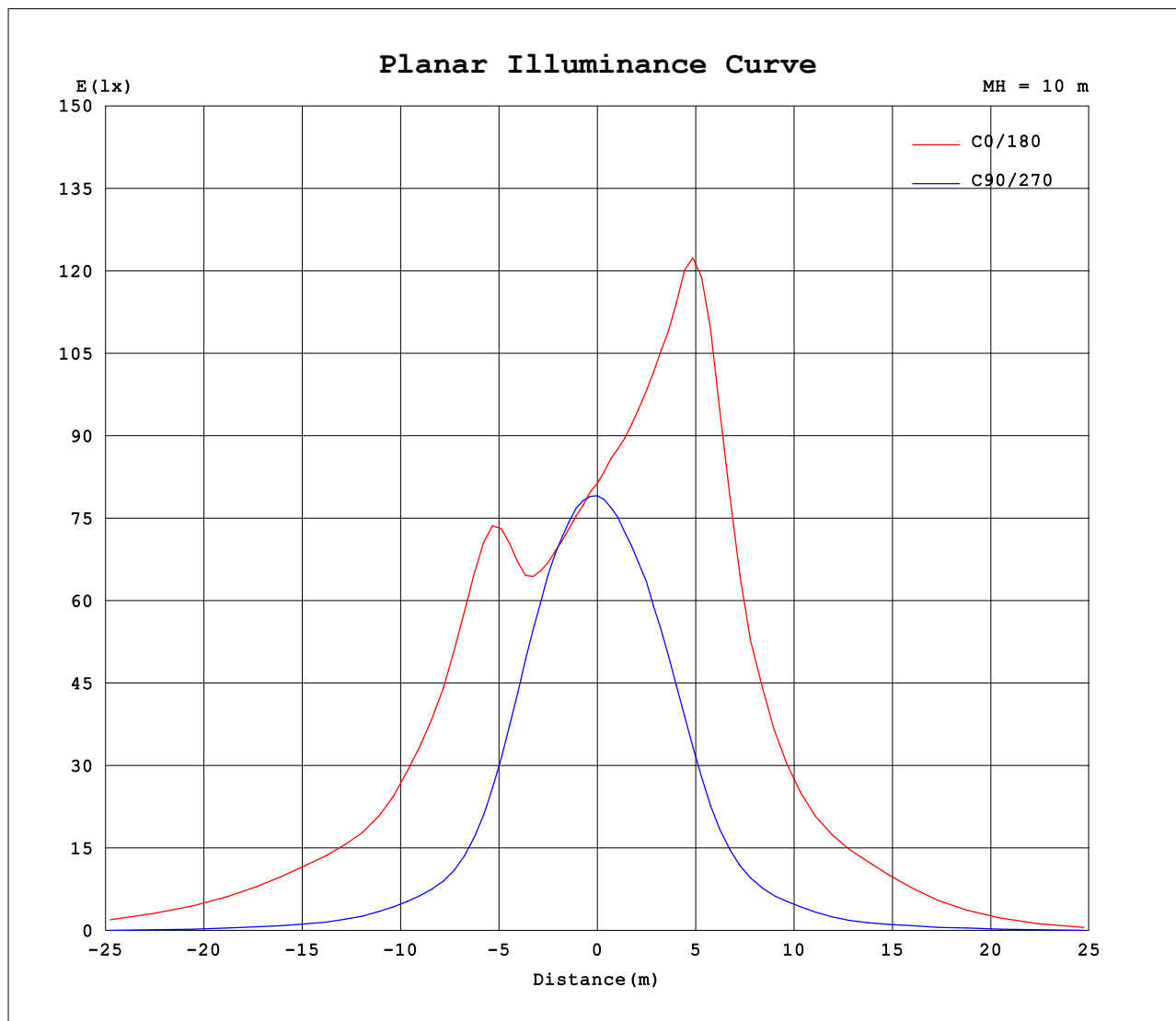
Test:U:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



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:

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:119.9V I:1.509A P:170.0W PF:0.9392 Lamp Flux:20853.7x1 lm		
NAME: ASD-LSBD-CORE-175N50	TYPE:	WEIGHT:
SPEC.:5000k	DIM.:	SERIAL No.:027
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	90	180	270															
0	803	803	803	803															
5	770	800	854	786															
10	735	763	952	744															
15	723	718	1061	707															
20	769	604	1299	610															
25	912	497	1555	521															
30	1075	331	1664	357															
35	1004	243	1368	265															
40	847	173	973	178															
45	771	146	804	147															
50	666	106	654	100															
55	670	83.4	614	79.1															
60	634	61.6	442	60.5															
65	551	48.3	282	49.6															
70	284	26.6	83.4	30.0															
75	123	18.0	40.6	17.3															
80	27.4	16.1	17.3	12.3															
85	6.56	9.00	6.84	6.79															
90	0.45	0.06	0.73	0.05															
95	0.30	0.06	0.41	0.05															
100	0.44	0.09	0.38	0.07															
105	0.62	0.11	0.46	0.08															
110	0.90	0.15	0.69	0.10															
115	1.03	0.18	0.82	0.13															
120	1.29	0.25	0.94	0.18															
125	1.43	0.31	1.02	0.22															
130	1.96	0.44	1.34	0.30															
135	2.35	0.56	1.57	0.36															
140	2.66	0.82	1.81	0.51															
145	2.67	1.02	1.85	0.64															
150	2.64	1.30	1.88	0.87															
155	2.62	1.49	1.95	1.03															
160	2.60	1.74	2.06	1.29															
165	2.57	1.90	2.14	1.50															
170	2.37	2.08	2.14	1.79															
175	2.21	2.14	2.06	1.94															
180	2.05	2.13	2.09	2.06															

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: