

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730333

Luminaire Tested: **HBLED-LD5-12SE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-AI-UNV-L850
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10984.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

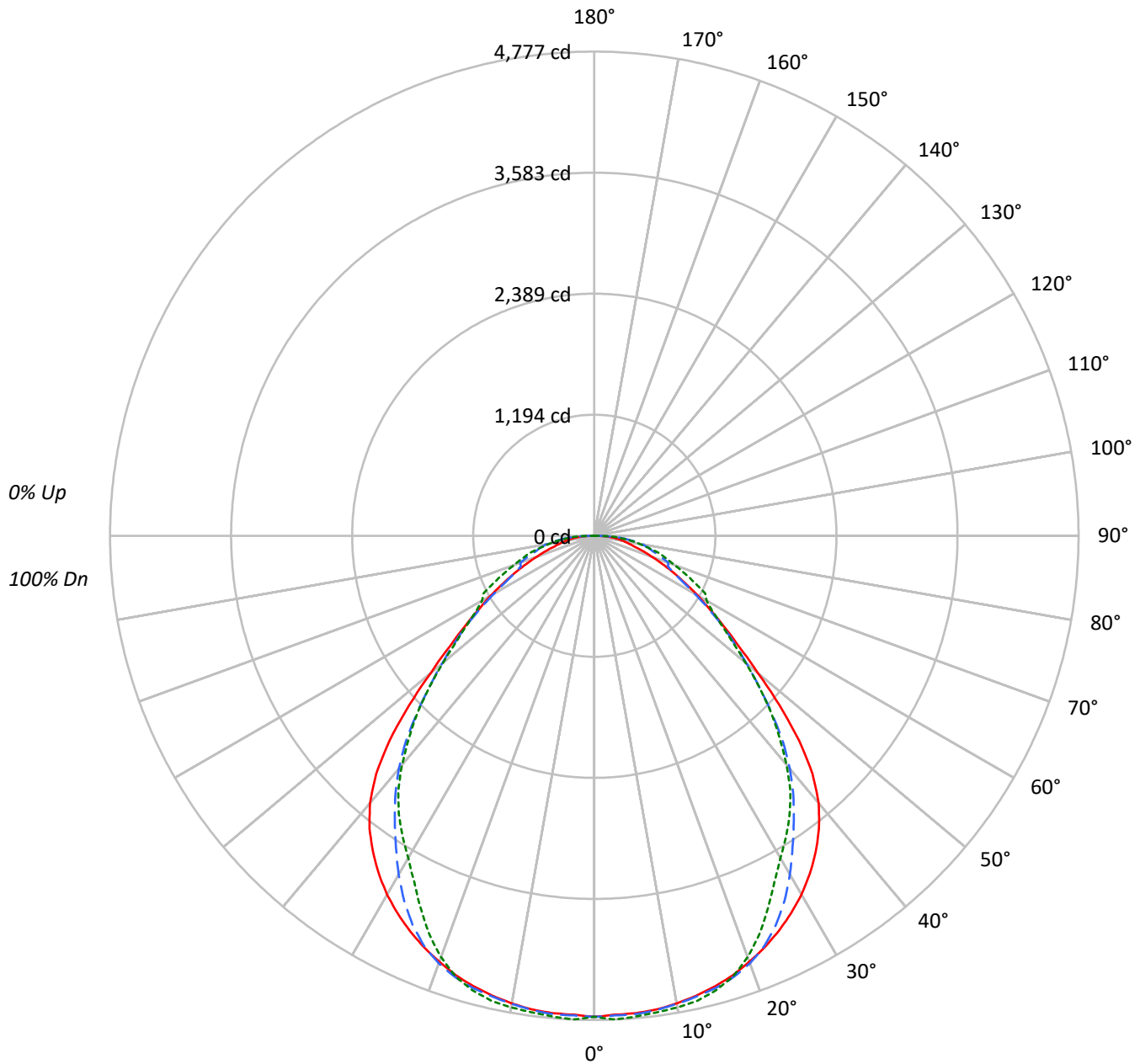
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7662	7662	7662
5°	7661	7678	7716
10°	7681	7690	7747
15°	7692	7721	7759
20°	7685	7713	7599
25°	7665	7550	7222
30°	7620	7194	6844
35°	7505	6762	6621
40°	7254	6322	6218
45°	6520	5645	5625
50°	5288	4917	4884
55°	4391	4310	4308
60°	3802	3691	4126
65°	3295	3274	4159
70°	2841	3673	3965
75°	2548	3765	4133
80°	2648	4431	4147
85°	3007	5107	4739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	4.1
10°-20°	1304.9	11.9
20°-30°	1938.1	17.6
30°-40°	2200.2	20.0
40°-50°	1966.9	17.9
50°-60°	1359.9	12.4
60°-70°	897.4	8.2
70°-80°	605.4	5.5
80°-90°	259.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3694.8	33.6
0°-40°	5895.0	53.7
0°-60°	9221.9	84.0
0°-90°	10984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4745	4745	4745	4745	4745	
5°	4727	4756	4737	4757	4760	450
15°	4602	4624	4619	4645	4642	1299
25°	4303	4344	4238	4112	4054	1983
35°	3808	3728	3430	3380	3359	2374
45°	2856	2614	2472	2491	2463	2172
55°	1560	1424	1531	1509	1530	1417
65°	862	766	857	1002	1089	861
75°	408	514	604	645	663	446
85°	162	226	276	277	256	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4745.4	4745.4	4745.4	4745.4	4745.4
2.5°	4729.3	4758.9	4736.8	4757.3	4777.1
5°	4727.1	4756.2	4737.4	4756.7	4760.5
7.5°	4713.7	4740.6	4718.5	4737.4	4741.7
10°	4684.7	4716.4	4690.6	4719.6	4725.0
12.5°	4647.1	4679.3	4656.7	4696.5	4698.7
15°	4601.9	4624.0	4619.2	4644.9	4641.7
17.5°	4545.0	4570.3	4566.5	4572.9	4557.9
20°	4472.4	4500.9	4489.1	4459.5	4422.5
22.5°	4394.5	4428.9	4382.2	4307.5	4255.3
25°	4302.6	4343.5	4238.2	4111.9	4053.8
27.5°	4201.1	4237.6	4062.4	3907.7	3847.5
30°	4087.2	4102.7	3858.8	3711.5	3670.7
32.5°	3955.5	3932.9	3641.1	3543.9	3520.2
35°	3807.7	3727.7	3430.5	3380.5	3359.0
37.5°	3641.1	3494.5	3222.6	3199.4	3176.8
40°	3441.8	3225.2	2999.6	2984.5	2950.1
42.5°	3184.4	2932.4	2751.8	2734.1	2703.4
45°	2855.5	2613.7	2472.4	2491.2	2463.3
47.5°	2477.2	2294.0	2204.3	2255.8	2204.3
50°	2105.4	1982.3	1957.6	2004.4	1944.2
52.5°	1800.7	1690.0	1741.1	1749.1	1713.1
55°	1559.9	1424.0	1531.0	1509.4	1530.4
57.5°	1350.4	1198.3	1330.0	1305.2	1377.3
60°	1177.4	1006.5	1143.0	1137.6	1277.8
62.5°	1007.6	871.1	980.7	1059.7	1232.1
65°	862.5	765.7	857.1	1002.2	1088.7
67.5°	723.3	686.7	784.0	864.6	959.2
70°	601.8	620.6	778.1	763.0	839.9
72.5°	499.7	563.7	686.7	689.4	743.7
75°	408.4	513.7	603.5	644.8	662.6
77.5°	339.6	465.9	544.9	559.4	542.2
80°	284.8	410.5	476.6	470.2	446.0
82.5°	230.0	311.1	375.6	381.5	353.0
85°	162.3	225.7	275.7	277.3	255.8
87.5°	87.0	139.2	167.1	172.0	159.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)