

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: P731167

Luminaire Tested: **HBLED-LD5-60SE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-N-CLI-UNV-L850
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53999.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

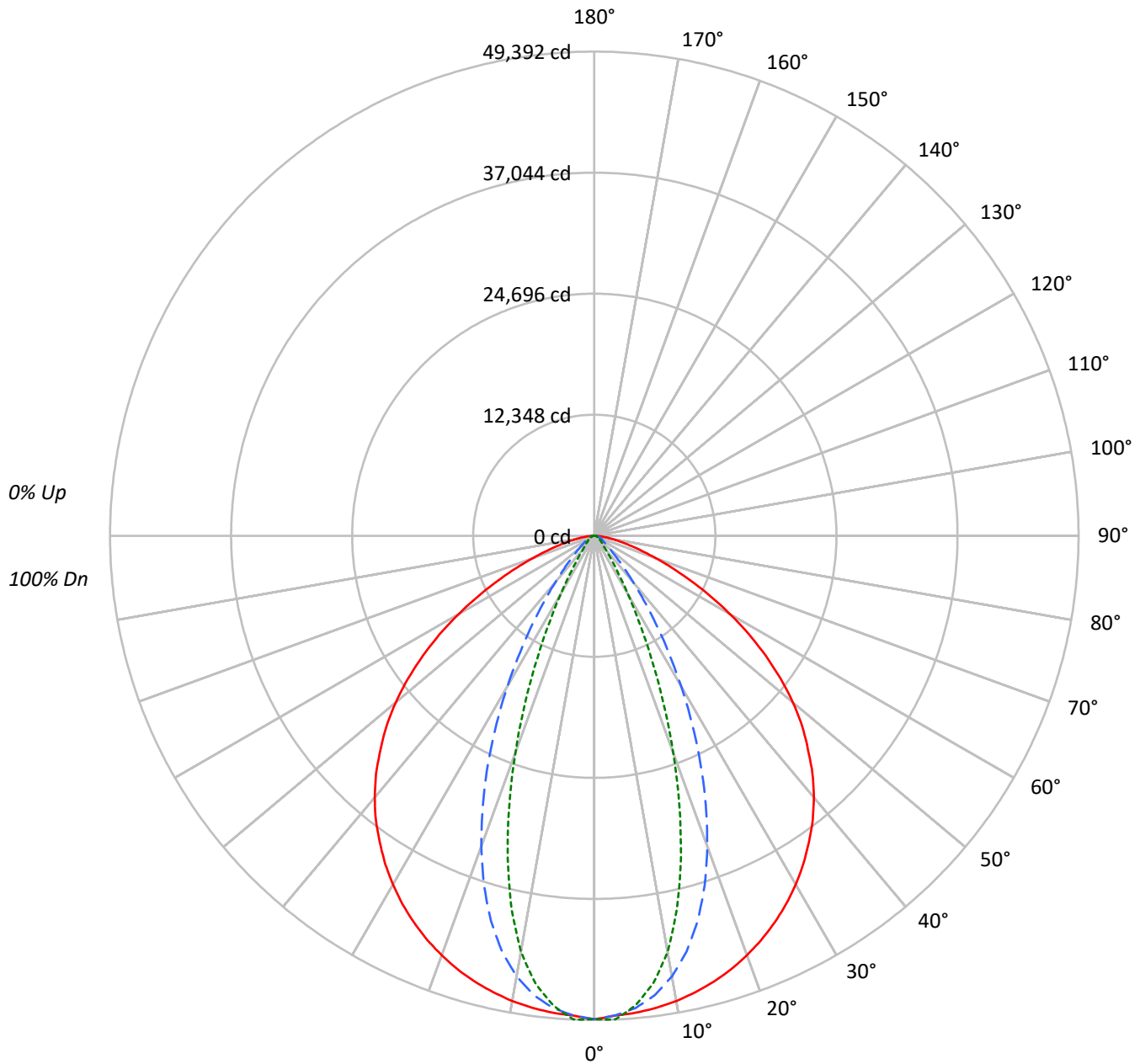
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	79638	79638	79638
5°	79159	78372	77959
10°	79026	74823	70606
15°	78708	68013	57022
20°	78237	57873	40415
25°	77536	45634	24418
30°	76595	32935	12550
35°	75212	21532	6268
40°	73428	12934	3657
45°	70378	7724	2735
50°	66379	5051	2297
55°	60076	3832	2004
60°	51627	3263	1828
65°	41527	2978	1727
70°	31285	3189	1717
75°	23012	3031	1766
80°	16836	3018	1934
85°	12610	3661	2501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4542.5	8.4
10°-20°	11300.7	20.9
20°-30°	12517.3	23.2
30°-40°	10028.5	18.6
40°-50°	7159.1	13.3
50°-60°	4598.4	8.5
60°-70°	2492.0	4.6
70°-80°	1065.2	2.0
80°-90°	295.4	0.5
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°	28360.5	52.5
0°-40°	38389.0	71.1
0°-60°	50146.4	92.9
0°-90°	53999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	49324	49324	49324	49324	49324	
5°	48841	49023	48355	48202	48101	###
15°	47087	45614	40689	35958	34113	13286
25°	43523	38376	25616	16689	13707	20050
35°	38158	27600	10924	4406	3180	23858
45°	30822	15933	3383	1439	1198	23757
55°	21342	7123	1361	836	712	19020
65°	10870	2925	779	538	452	10885
75°	3689	1070	486	338	283	4099
85°	681	283	198	164	135	831
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	49324.1	49324.1	49324.1	49324.1	49324.1
2.5°	48999.4	49306.0	48975.9	49181.2	49391.6
5°	48840.9	49022.9	48355.0	48201.7	48100.6
7.5°	48565.5	48513.5	47258.9	46445.7	46053.3
10°	48201.7	47780.9	45637.6	43850.4	43065.8
12.5°	47682.2	46814.6	43442.4	40304.1	38974.1
15°	47087.3	45614.4	40688.6	35958.0	34113.4
17.5°	46375.5	44211.4	37397.0	31297.3	28862.9
20°	45533.8	42517.6	33682.1	26345.5	23521.5
22.5°	44593.4	40564.0	29704.6	21409.4	18380.4
25°	43523.0	38376.4	25615.6	16689.1	13706.6
27.5°	42367.1	35947.6	21549.9	12470.0	9749.9
30°	41083.5	33318.4	17665.8	8991.5	6731.3
32.5°	39683.2	30523.1	14057.5	6323.3	4603.6
35°	38158.4	27600.4	10924.1	4406.0	3179.8
37.5°	36596.9	24617.9	8251.0	3114.8	2281.0
40°	34838.1	21645.8	6136.4	2281.0	1735.3
42.5°	32949.5	18731.0	4541.3	1756.1	1405.4
45°	30821.8	15933.0	3382.6	1439.3	1197.8
47.5°	28759.1	13324.8	2569.3	1226.2	1041.7
50°	26426.2	10971.1	2010.8	1070.4	914.4
52.5°	23950.3	8900.5	1631.4	943.1	805.3
55°	21341.9	7123.4	1361.2	836.5	711.9
57.5°	18699.9	5642.6	1163.9	745.5	634.0
60°	15987.6	4512.6	1010.6	667.6	566.2
62.5°	13340.4	3608.6	883.2	600.1	506.7
65°	10869.8	2925.1	779.4	537.8	452.0
67.5°	8586.0	2312.2	727.5	483.1	408.0
70°	6627.2	1800.3	675.5	431.2	363.7
72.5°	5021.7	1382.2	597.7	384.5	322.2
75°	3688.9	1070.4	485.9	337.8	283.1
77.5°	2639.6	823.6	394.9	293.5	244.3
80°	1810.7	613.2	324.6	252.0	208.0
82.5°	1177.0	434.0	262.3	208.0	171.3
85°	680.7	283.1	197.6	163.7	135.0
87.5°	293.5	155.8	135.0	122.2	103.8
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)