

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: P731173

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-N-UNV-L850
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58363.0 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

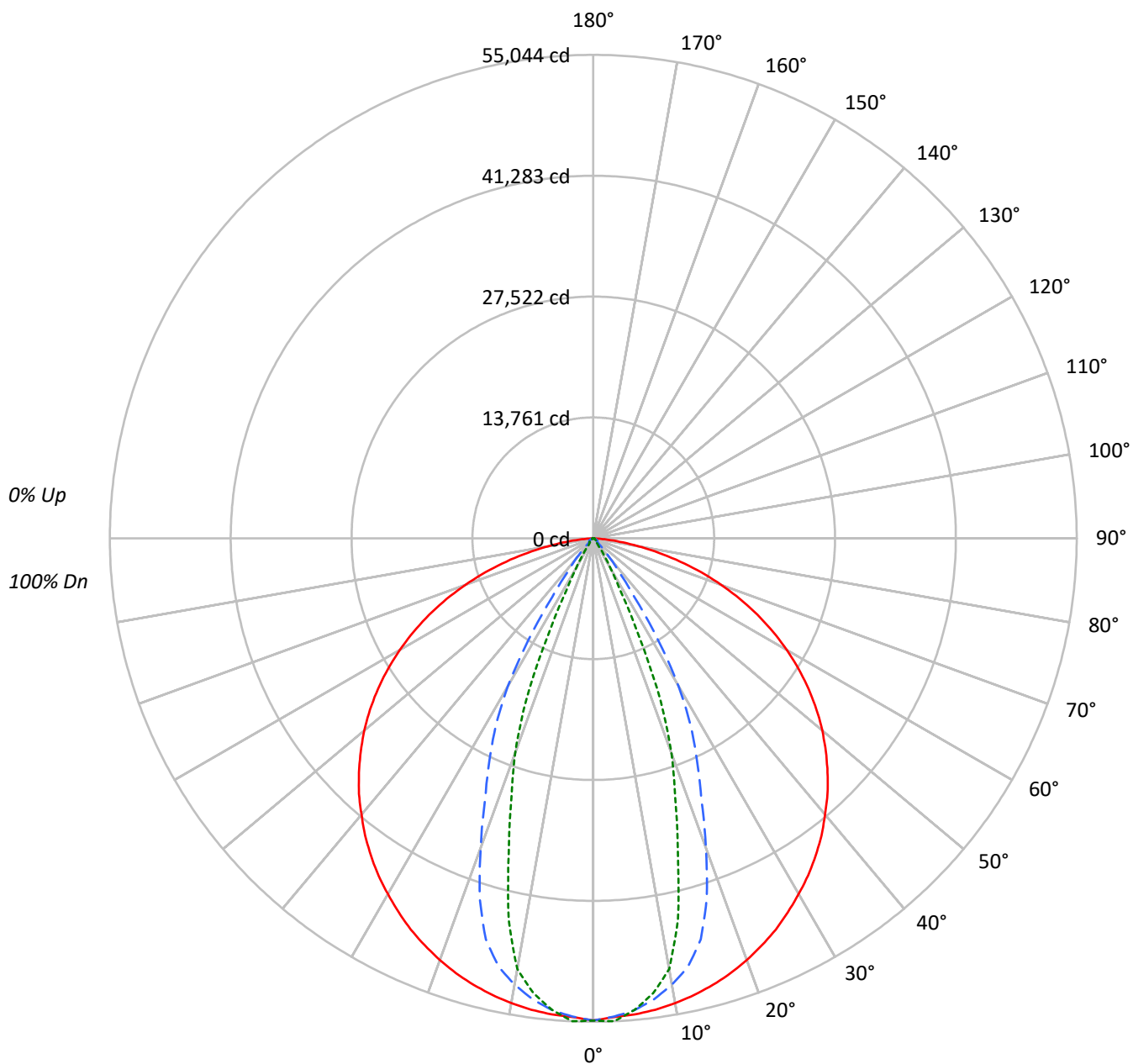
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	88658	88658	88658
5°	88184	87405	87367
10°	88129	84604	81636
15°	88004	79040	62129
20°	87799	64433	44721
25°	87576	49821	22030
30°	87189	36209	7144
35°	86983	16064	1838
40°	86527	6524	1238
45°	86140	1831	1318
50°	85469	1299	1463
55°	84238	1544	625
60°	82158	1721	380
65°	78779	1097	449
70°	73187	975	555
75°	64024	734	765
80°	47871	899	1093
85°	23712	1160	1449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5095.8	8.7
10°-20°	12742.0	21.8
20°-30°	13801.5	23.6
30°-40°	10220.6	17.5
40°-50°	7361.5	12.6
50°-60°	4558.1	7.8
60°-70°	2803.2	4.8
70°-80°	1477.7	2.5
80°-90°	302.5	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°	31639.3	54.2
0°-40°	41859.9	71.7
0°-60°	53779.6	92.1
0°-90°	58363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	54910	54910	54910	54910	54910	
5°	54409	54610	53928	53968	53905	###
15°	52648	51426	47286	40212	37169	14862
25°	49158	45029	27966	17593	12366	22651
35°	44130	31111	8150	1917	933	27609
45°	37725	17528	802	580	577	29094
55°	29925	3610	548	496	222	26714
65°	20620	381	287	183	118	20345
75°	10263	89	118	154	123	10840
85°	1280	34	63	94	78	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	54910.5	54910.5	54910.5	54910.5	54910.5
2.5°	54557.9	54905.5	54495.3	54801.0	55043.8
5°	54409.0	54610.2	53928.4	53967.5	53904.9
7.5°	54147.7	54100.8	52954.1	52452.5	52233.2
10°	53753.5	53442.5	51603.7	50556.1	49793.4
12.5°	53244.1	52549.2	49918.8	46588.2	44519.4
15°	52648.4	51426.0	47285.6	40212.0	37168.6
17.5°	51937.9	50206.1	42980.7	33702.2	30985.8
20°	51099.3	48845.0	37500.3	28673.9	26027.9
22.5°	50164.2	47189.0	32176.9	23830.9	20056.3
25°	49158.5	45028.8	27965.9	17593.0	12366.0
27.5°	47996.2	42252.0	24016.4	10362.6	6311.1
30°	46765.9	38908.3	19421.5	5574.3	3832.1
32.5°	45525.0	35118.0	13742.7	3482.0	2173.3
35°	44130.2	31111.0	8149.9	1917.3	932.7
37.5°	42675.0	27438.4	4816.8	872.6	598.2
40°	41053.0	24081.8	3095.3	579.8	587.6
42.5°	39485.8	20952.3	1742.4	572.0	582.6
45°	37725.0	17527.6	801.9	579.8	577.3
47.5°	35904.3	13977.6	519.7	585.1	585.1
50°	34026.3	9994.3	517.2	598.2	582.6
52.5°	32043.6	6235.4	538.1	595.7	478.1
55°	29925.1	3610.0	548.5	496.2	222.1
57.5°	27730.9	2128.9	553.8	284.7	125.4
60°	25442.5	1178.0	532.8	211.5	117.6
62.5°	23083.7	561.6	420.5	198.6	114.8
65°	20620.4	381.4	287.2	182.7	117.6
67.5°	18063.2	295.1	227.2	172.4	120.1
70°	15503.2	219.3	206.5	172.4	117.6
72.5°	12901.6	148.9	172.4	174.9	117.6
75°	10263.1	88.8	117.6	154.2	122.7
77.5°	7648.4	54.8	91.4	159.3	148.9
80°	5148.5	46.9	96.7	148.9	117.6
82.5°	3022.4	41.9	94.2	114.8	94.2
85°	1280.0	34.1	62.6	94.2	78.2
87.5°	240.3	28.8	49.7	75.7	67.9
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)