

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: P731172

Luminaire Tested: **HBLED-LD5-60SE-N-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731172
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-L840
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57241.0 lumens
Efficiency: N/A
Efficacy: 156.0 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

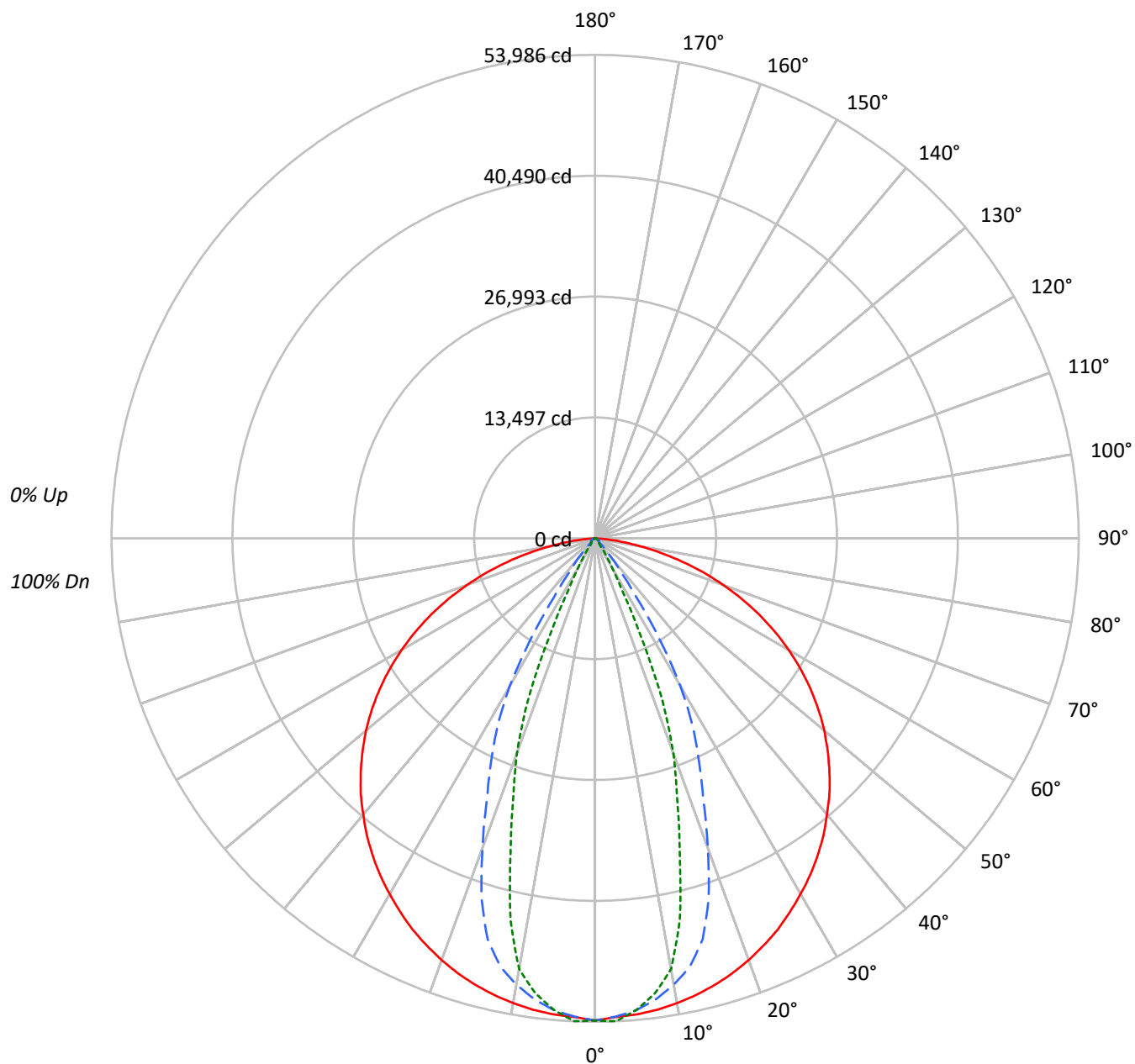
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	86953	86953	86953
5°	86488	85724	85687
10°	86434	82977	80067
15°	86312	77521	60935
20°	86111	63195	43862
25°	85892	48864	21607
30°	85513	35513	7007
35°	85310	15755	1803
40°	84864	6399	1215
45°	84484	1796	1293
50°	83826	1274	1435
55°	82618	1514	613
60°	80579	1688	373
65°	77265	1076	441
70°	71780	956	545
75°	62793	720	750
80°	46950	881	1073
85°	23257	1137	1421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4997.8	8.7
10°-20°	12497.0	21.8
20°-30°	13536.2	23.6
30°-40°	10024.1	17.5
40°-50°	7220.0	12.6
50°-60°	4470.5	7.8
60°-70°	2749.3	4.8
70°-80°	1449.3	2.5
80°-90°	296.6	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°	31031.0	54.2
0°-40°	41055.2	71.7
0°-60°	52745.7	92.1
0°-90°	57241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	53855	53855	53855	53855	53855	
5°	53363	53560	52892	52930	52869	###
15°	51636	50437	46377	39439	36454	14576
25°	48214	44163	27428	17255	12128	22215
35°	43282	30513	7993	1880	915	27078
45°	37000	17191	786	569	566	28534
55°	29350	3541	538	487	218	26201
65°	20224	374	282	179	115	19954
75°	10066	87	115	151	120	10632
85°	1255	33	61	92	77	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	53854.9	53854.9	53854.9	53854.9	53854.9
2.5°	53509.1	53850.0	53447.7	53747.5	53985.6
5°	53363.0	53560.3	52891.6	52930.0	52868.6
7.5°	53106.8	53060.7	51936.1	51444.2	51229.0
10°	52720.1	52415.1	50611.6	49584.2	48836.1
12.5°	52220.5	51539.0	48959.1	45692.6	43663.6
15°	51636.3	50437.3	46376.6	39438.9	36454.1
17.5°	50939.4	49240.9	42154.4	33054.3	30390.1
20°	50117.0	47906.0	36779.4	28122.7	25527.5
22.5°	49199.8	46281.8	31558.3	23372.7	19670.7
25°	48213.5	44163.1	27428.3	17254.8	12128.3
27.5°	47073.5	41439.7	23554.7	10163.4	6189.8
30°	45866.9	38160.3	19048.1	5467.1	3758.5
32.5°	44649.8	34442.9	13478.5	3415.1	2131.5
35°	43281.8	30512.9	7993.2	1880.5	914.7
37.5°	41854.6	26910.9	4724.2	855.8	586.7
40°	40263.8	23618.8	3035.8	568.6	576.3
42.5°	38726.7	20549.5	1708.9	561.0	571.4
45°	36999.7	17190.6	786.5	568.6	566.2
47.5°	35214.1	13708.9	509.7	573.8	573.8
50°	33372.2	9802.2	507.3	586.7	571.4
52.5°	31427.6	6115.5	527.8	584.2	468.9
55°	29349.8	3540.6	537.9	486.7	217.9
57.5°	27197.8	2087.9	543.1	279.2	123.0
60°	24953.4	1155.4	522.6	207.5	115.4
62.5°	22639.9	550.8	412.4	194.8	112.6
65°	20224.0	374.1	281.7	179.2	115.4
67.5°	17716.0	289.4	222.8	169.1	117.8
70°	15205.2	215.1	202.5	169.1	115.4
72.5°	12653.6	146.1	169.1	171.6	115.4
75°	10065.8	87.1	115.4	151.3	120.3
77.5°	7501.3	53.7	89.6	156.2	146.1
80°	5049.5	46.0	94.8	146.1	115.4
82.5°	2964.3	41.1	92.3	112.6	92.3
85°	1255.4	33.4	61.4	92.3	76.7
87.5°	235.7	28.2	48.8	74.3	66.6
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)