

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: P731169

Luminaire Tested: **HBLED-LD5-60SE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731169
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-L740
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59966.0 lumens
Efficiency: N/A
Efficacy: 163.4 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

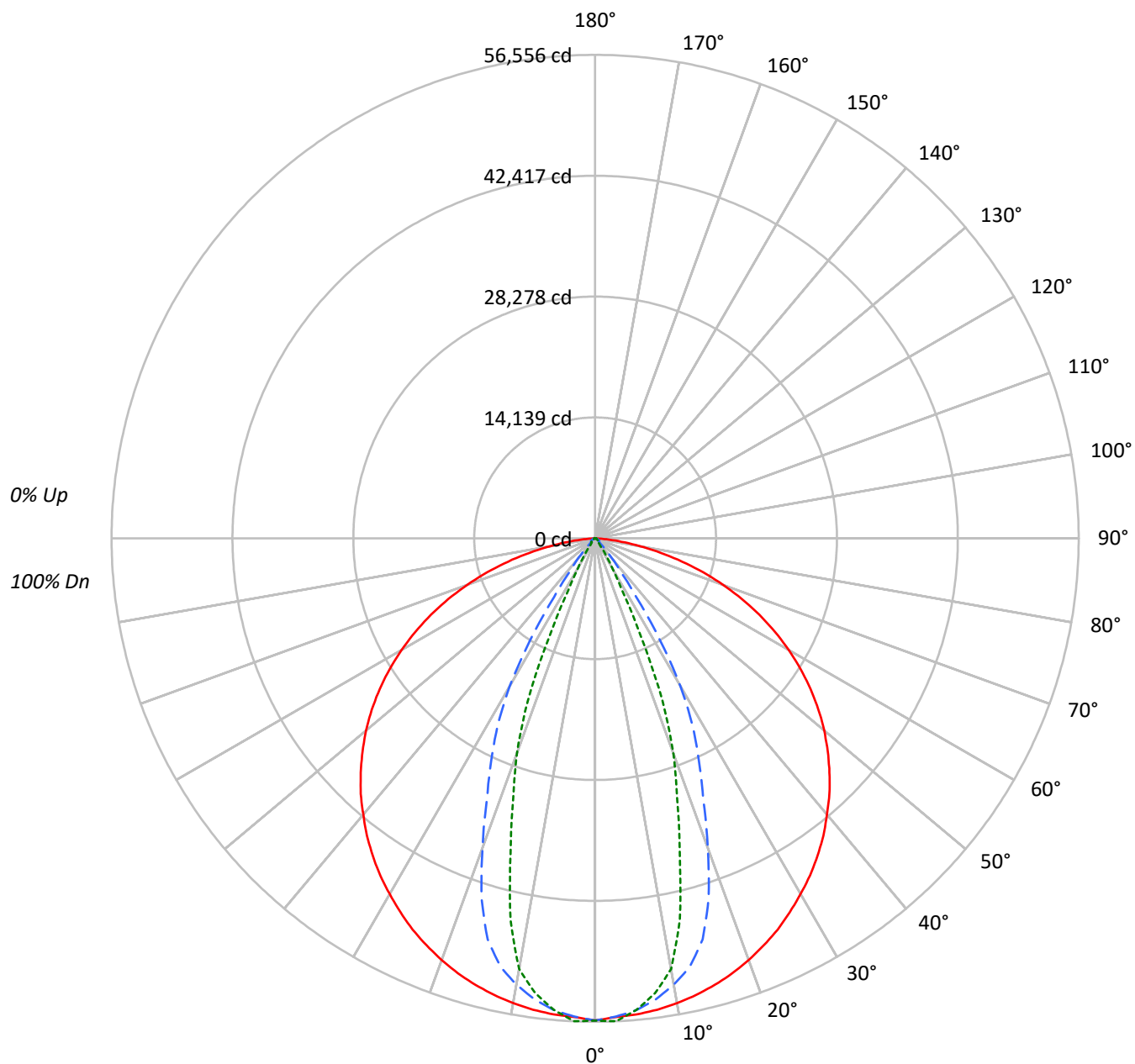
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	91093	91093	91093
5°	90606	89805	89766
10°	90549	86928	83878
15°	90421	81211	63835
20°	90211	66203	45950
25°	89981	51190	22635
30°	89583	37203	7341
35°	89372	16505	1889
40°	88904	6703	1273
45°	88506	1881	1354
50°	87817	1335	1504
55°	86551	1587	642
60°	84415	1768	390
65°	80943	1127	462
70°	75197	1001	571
75°	65783	754	786
80°	49186	923	1124
85°	24363	1191	1489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5235.7	8.7
10°-20°	13092.0	21.8
20°-30°	14180.6	23.6
30°-40°	10501.3	17.5
40°-50°	7563.7	12.6
50°-60°	4683.4	7.8
60°-70°	2880.2	4.8
70°-80°	1518.3	2.5
80°-90°	310.8	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°	32508.3	54.2
0°-40°	43009.6	71.7
0°-60°	55256.7	92.1
0°-90°	59966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	59966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	56419	56419	56419	56419	56419	
5°	55903	56110	55410	55450	55386	###
15°	54094	52838	48584	41316	38190	15270
25°	50509	46266	28734	18076	12706	23273
35°	45342	31966	8374	1970	958	28367
45°	38761	18009	824	596	593	29893
55°	30747	3709	564	510	228	27448
65°	21187	392	295	188	121	20904
75°	10545	91	121	158	126	11138
85°	1315	35	64	97	80	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	56418.7	56418.7	56418.7	56418.7	56418.7
2.5°	56056.4	56413.5	55992.1	56306.2	56555.6
5°	55903.4	56110.1	55409.6	55449.8	55385.5
7.5°	55635.0	55586.7	54408.5	53893.2	53667.8
10°	55229.9	54910.4	53021.0	51944.7	51161.0
12.5°	54706.5	53992.5	51289.9	47867.8	45742.2
15°	54094.4	52838.4	48584.4	41316.5	38189.5
17.5°	53364.4	51585.0	44161.2	34627.9	31836.8
20°	52502.8	50186.6	38530.3	29461.5	26742.8
22.5°	51542.0	48485.0	33060.7	24485.4	20607.1
25°	50508.7	46265.6	28734.0	18076.2	12705.6
27.5°	49314.4	43412.5	24676.0	10647.2	6484.4
30°	48050.4	39976.9	19954.9	5727.4	3937.4
32.5°	46775.4	36082.6	14120.1	3577.7	2233.0
35°	45342.3	31965.5	8373.8	1970.0	958.3
37.5°	43847.2	28192.0	4949.1	896.6	614.7
40°	42180.6	24743.2	3180.4	595.7	603.8
42.5°	40570.3	21527.8	1790.3	587.7	598.6
45°	38761.1	18009.0	823.9	595.7	593.1
47.5°	36890.5	14361.6	534.0	601.2	601.2
50°	34960.9	10268.8	531.4	614.7	598.6
52.5°	32923.8	6406.6	552.9	612.1	491.2
55°	30747.1	3709.2	563.6	509.9	228.2
57.5°	28492.6	2187.3	569.0	292.5	128.9
60°	26141.3	1210.4	547.5	217.3	120.9
62.5°	23717.7	577.0	432.1	204.1	118.0
65°	21186.8	391.9	295.1	187.8	120.9
67.5°	18559.3	303.2	233.4	177.1	123.4
70°	15929.0	225.4	212.1	177.1	120.9
72.5°	13256.0	153.0	177.1	179.7	120.9
75°	10545.0	91.3	120.9	158.5	126.0
77.5°	7858.5	56.3	93.9	163.6	153.0
80°	5289.9	48.2	99.3	153.0	120.9
82.5°	3105.4	43.1	96.7	118.0	96.7
85°	1315.1	35.0	64.3	96.7	80.4
87.5°	246.9	29.6	51.1	77.8	69.8
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)