

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: P731195

Luminaire Tested: **HBLED-LD5-60SE-W-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-UNV-L835
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57775.0 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

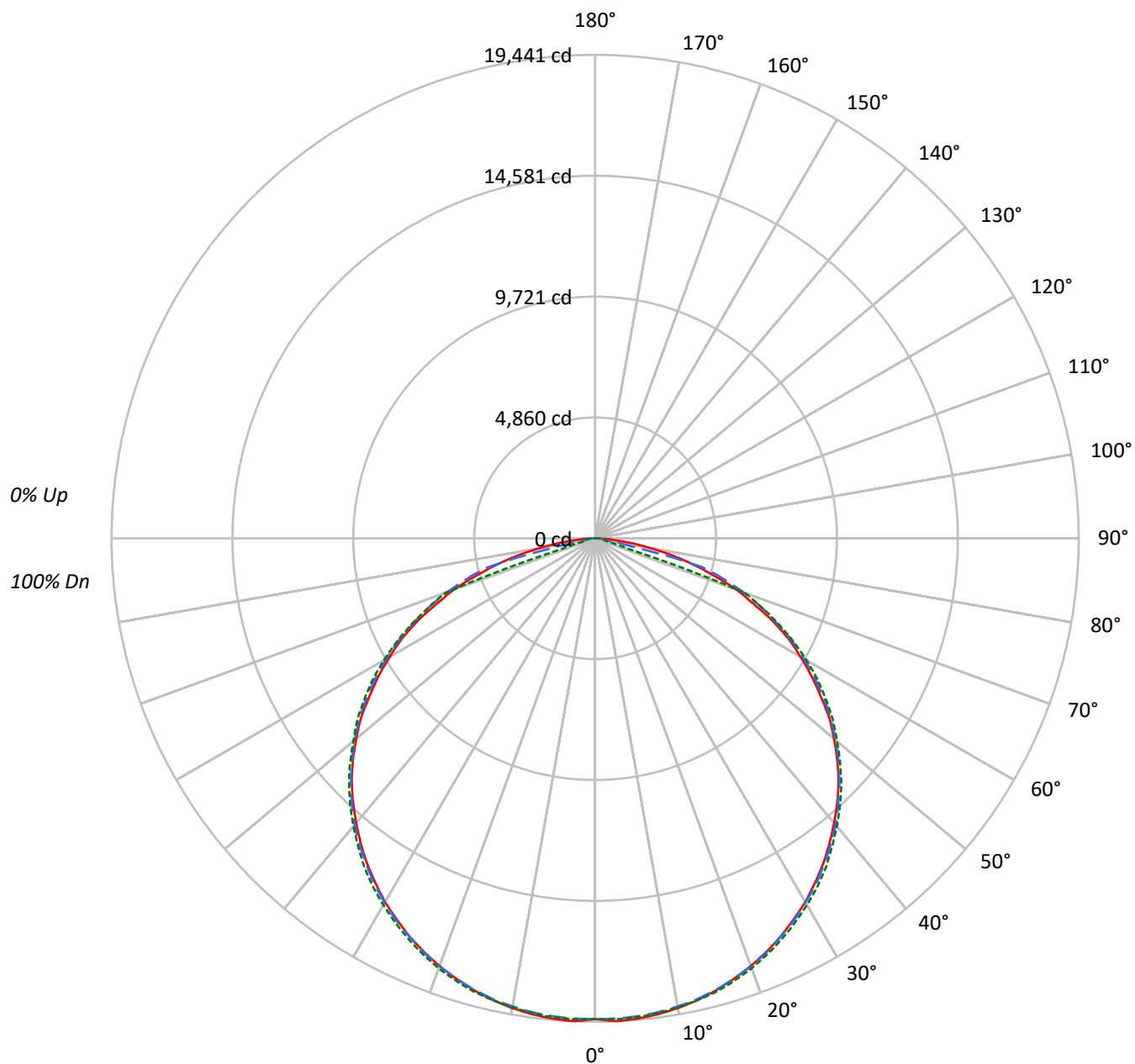
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31215	31215	31215
5°	31439	31278	31334
10°	31456	31344	31407
15°	31452	31409	31553
20°	31450	31457	31620
25°	31465	31480	31672
30°	31499	31540	31748
35°	31494	31596	31859
40°	31499	31698	31871
45°	31587	31705	31961
50°	31491	31675	31881
55°	31145	31581	31921
60°	30791	31292	31681
65°	30110	30736	30966
70°	28585	29805	30172
75°	25496	27646	3331
80°	20503	3444	3644
85°	13644	4468	4548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1836.2	3.2
10°-20°	5305.8	9.2
20°-30°	8152.0	14.1
30°-40°	10035.4	17.4
40°-50°	10698.8	18.5
50°-60°	10001.2	17.3
60°-70°	7917.2	13.7
70°-80°	3368.4	5.8
80°-90°	460.0	0.8
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°	15294.0	26.5
0°-40°	25329.4	43.8
0°-60°	46029.4	79.7
0°-90°	57775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19333	19333	19333	19333	19333	
5°	19398	19312	19299	19221	19333	###
15°	18816	18782	18790	18739	18877	5313
25°	17662	17641	17671	17662	17778	8143
35°	15978	15952	16030	16086	16163	9998
45°	13833	13756	13885	13941	13997	10659
55°	11064	11099	11219	11258	11340	9908
65°	7881	7950	8045	8105	8105	7754
75°	4087	4264	4432	724	534	4324
85°	736	220	241	250	246	960
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19333.2	19333.2	19333.2	19333.2	19333.2
2.5°	19440.8	19350.4	19333.2	19255.6	19359.0
5°	19397.8	19311.6	19298.7	19221.2	19333.2
7.5°	19307.3	19238.4	19229.8	19148.0	19260.0
10°	19186.7	19122.1	19117.8	19044.6	19156.6
12.5°	19023.1	18967.1	18984.3	18911.1	19023.1
15°	18816.4	18781.9	18790.5	18738.8	18876.6
17.5°	18566.6	18549.3	18566.6	18527.8	18652.7
20°	18303.8	18282.3	18308.2	18286.6	18402.9
22.5°	17998.1	17972.2	18023.9	17993.8	18101.4
25°	17662.1	17640.6	17670.7	17662.1	17778.4
27.5°	17278.8	17257.3	17321.9	17326.2	17416.6
30°	16895.5	16865.4	16917.1	16938.6	17029.0
32.5°	16439.0	16430.4	16507.9	16525.1	16619.9
35°	15978.2	15952.3	16029.9	16085.8	16163.4
37.5°	15474.3	15470.0	15551.8	15599.2	15637.9
40°	14944.6	14923.0	15039.3	15086.7	15121.1
42.5°	14406.2	14358.8	14470.8	14531.1	14569.9
45°	13833.4	13755.9	13885.1	13941.1	13997.1
47.5°	13204.6	13135.7	13260.6	13320.9	13359.7
50°	12537.1	12472.5	12610.3	12662.0	12692.1
52.5°	11865.2	11800.6	11947.0	11990.1	12063.3
55°	11064.1	11098.6	11219.2	11257.9	11339.8
57.5°	10323.4	10353.5	10469.8	10517.2	10611.9
60°	9535.2	9582.6	9690.3	9737.6	9810.9
62.5°	8772.9	8777.2	8906.4	8928.0	8984.0
65°	7881.4	7950.3	8045.1	8105.4	8105.4
67.5°	6886.6	7054.5	7218.2	7205.3	7239.7
70°	6055.3	6119.9	6313.7	6343.9	6391.3
72.5°	5013.1	5181.1	5396.4	4031.2	1369.6
75°	4087.1	4263.7	4431.7	723.5	534.0
77.5°	3174.1	3311.9	1472.9	413.5	404.8
80°	2205.1	2424.7	370.4	379.0	391.9
82.5°	1451.4	1184.4	305.8	335.9	340.2
85°	736.5	219.6	241.2	249.8	245.5
87.5°	241.2	133.5	137.8	142.1	146.4
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)