

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: P731196

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731196
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-L840
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59440.0 lumens
Efficiency: N/A
Efficacy: 162.0 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

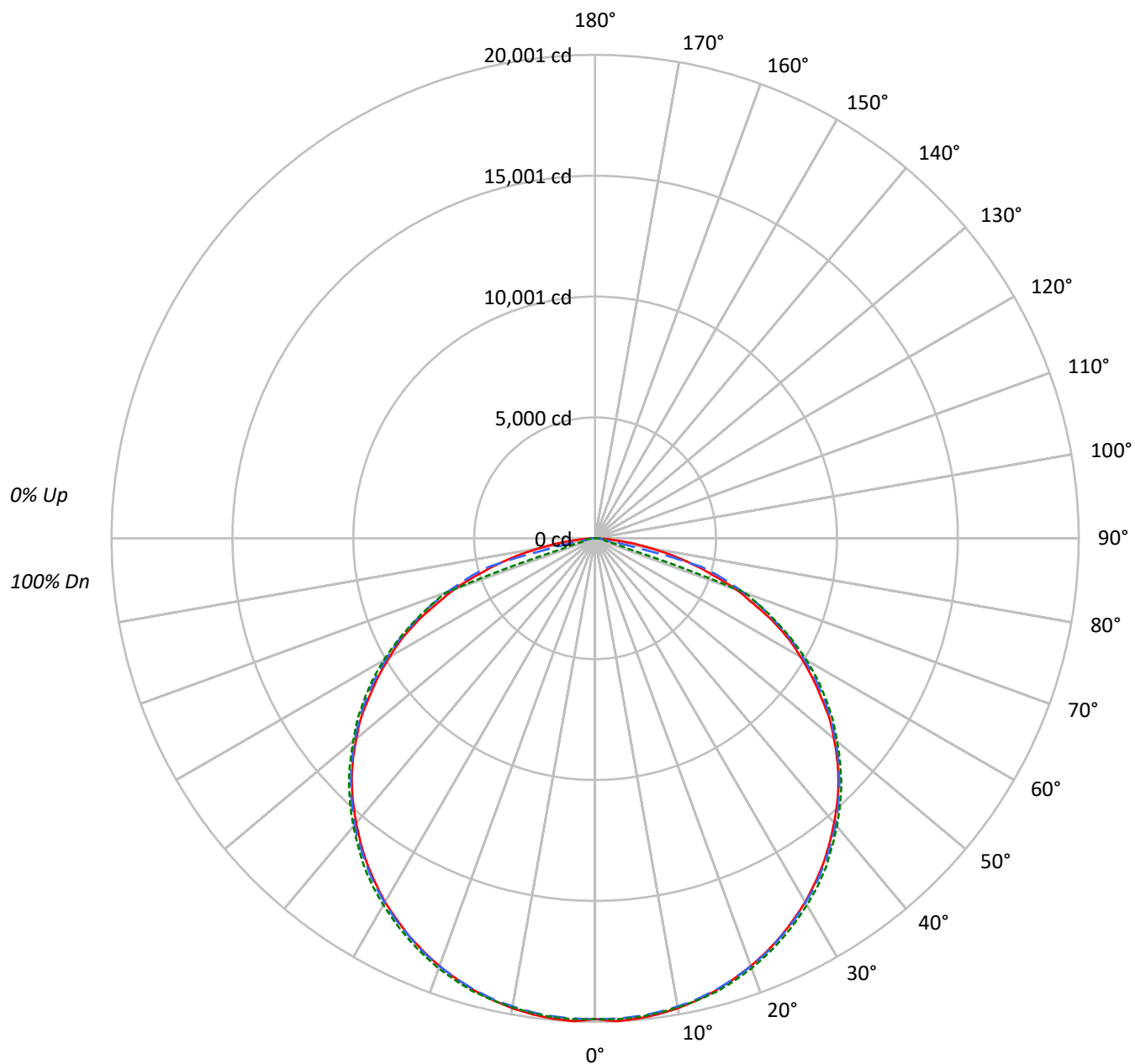
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32115	32115	32115
5°	32345	32180	32237
10°	32363	32247	32312
15°	32359	32314	32462
20°	32356	32364	32531
25°	32372	32388	32585
30°	32407	32449	32663
35°	32401	32506	32777
40°	32406	32612	32789
45°	32497	32618	32881
50°	32399	32588	32800
55°	32043	32492	32841
60°	31678	32193	32594
65°	30978	31621	31859
70°	29409	30664	31041
75°	26231	28443	3427
80°	21094	3543	3749
85°	14037	4596	4679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1889.1	3.2
10°-20°	5458.7	9.2
20°-30°	8386.9	14.1
30°-40°	10324.6	17.4
40°-50°	11007.1	18.5
50°-60°	10289.4	17.3
60°-70°	8145.4	13.7
70°-80°	3465.5	5.8
80°-90°	473.2	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°	15734.8	26.5
0°-40°	26059.4	43.8
0°-60°	47355.9	79.7
0°-90°	59440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	59440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19890	19890	19890	19890	19890	
5°	19957	19868	19855	19775	19890	###
15°	19359	19323	19332	19279	19421	5466
25°	18171	18149	18180	18171	18291	8378
35°	16439	16412	16492	16549	16629	10286
45°	14232	14152	14285	14343	14400	10966
55°	11383	11418	11542	11582	11667	10193
65°	8109	8179	8277	8339	8339	7977
75°	4205	4387	4559	744	549	4449
85°	758	226	248	257	253	988
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19890.3	19890.3	19890.3	19890.3	19890.3
2.5°	20001.1	19908.0	19890.3	19810.6	19916.9
5°	19956.8	19868.2	19854.9	19775.1	19890.3
7.5°	19863.7	19792.8	19784.0	19699.8	19815.0
10°	19739.7	19673.2	19668.8	19593.5	19708.7
12.5°	19571.3	19513.7	19531.4	19456.1	19571.3
15°	19358.6	19323.2	19332.0	19278.9	19420.6
17.5°	19101.6	19083.9	19101.6	19061.7	19190.2
20°	18831.3	18809.2	18835.8	18813.6	18933.2
22.5°	18516.7	18490.2	18543.3	18512.3	18623.1
25°	18171.1	18149.0	18180.0	18171.1	18290.8
27.5°	17776.8	17754.6	17821.1	17825.5	17918.6
30°	17382.4	17351.4	17404.6	17426.7	17519.8
32.5°	16912.8	16903.9	16983.7	17001.4	17098.9
35°	16438.7	16412.1	16491.8	16549.4	16629.2
37.5°	15920.2	15915.8	16000.0	16048.7	16088.6
40°	15375.2	15353.1	15472.7	15521.5	15556.9
42.5°	14821.4	14772.6	14887.8	14949.9	14989.7
45°	14232.1	14152.3	14285.2	14342.8	14400.4
47.5°	13585.1	13514.3	13642.8	13704.8	13744.7
50°	12898.4	12831.9	12973.7	13026.9	13057.9
52.5°	12207.1	12140.7	12291.3	12335.6	12411.0
55°	11383.0	11418.4	11542.5	11582.4	11666.6
57.5°	10620.9	10651.9	10771.5	10820.3	10917.7
60°	9810.0	9858.8	9969.5	10018.3	10093.6
62.5°	9025.7	9030.2	9163.1	9185.3	9242.9
65°	8108.6	8179.4	8276.9	8339.0	8339.0
67.5°	7085.0	7257.8	7426.2	7412.9	7448.3
70°	6229.8	6296.3	6495.7	6526.7	6575.5
72.5°	5157.6	5330.4	5551.9	4147.3	1409.0
75°	4204.9	4386.6	4559.4	744.4	549.4
77.5°	3265.6	3407.4	1515.4	425.4	416.5
80°	2268.6	2494.6	381.1	389.9	403.2
82.5°	1493.2	1218.5	314.6	345.6	350.0
85°	757.7	226.0	248.1	257.0	252.6
87.5°	248.1	137.4	141.8	146.2	150.7
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)