

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: P731161

Luminaire Tested: **HBLED-LD5-60HE-W-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731161
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-LD5-60HE-W-UNV-L850
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63418.0 lumens
Efficiency: N/A
Efficacy: 178.6 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

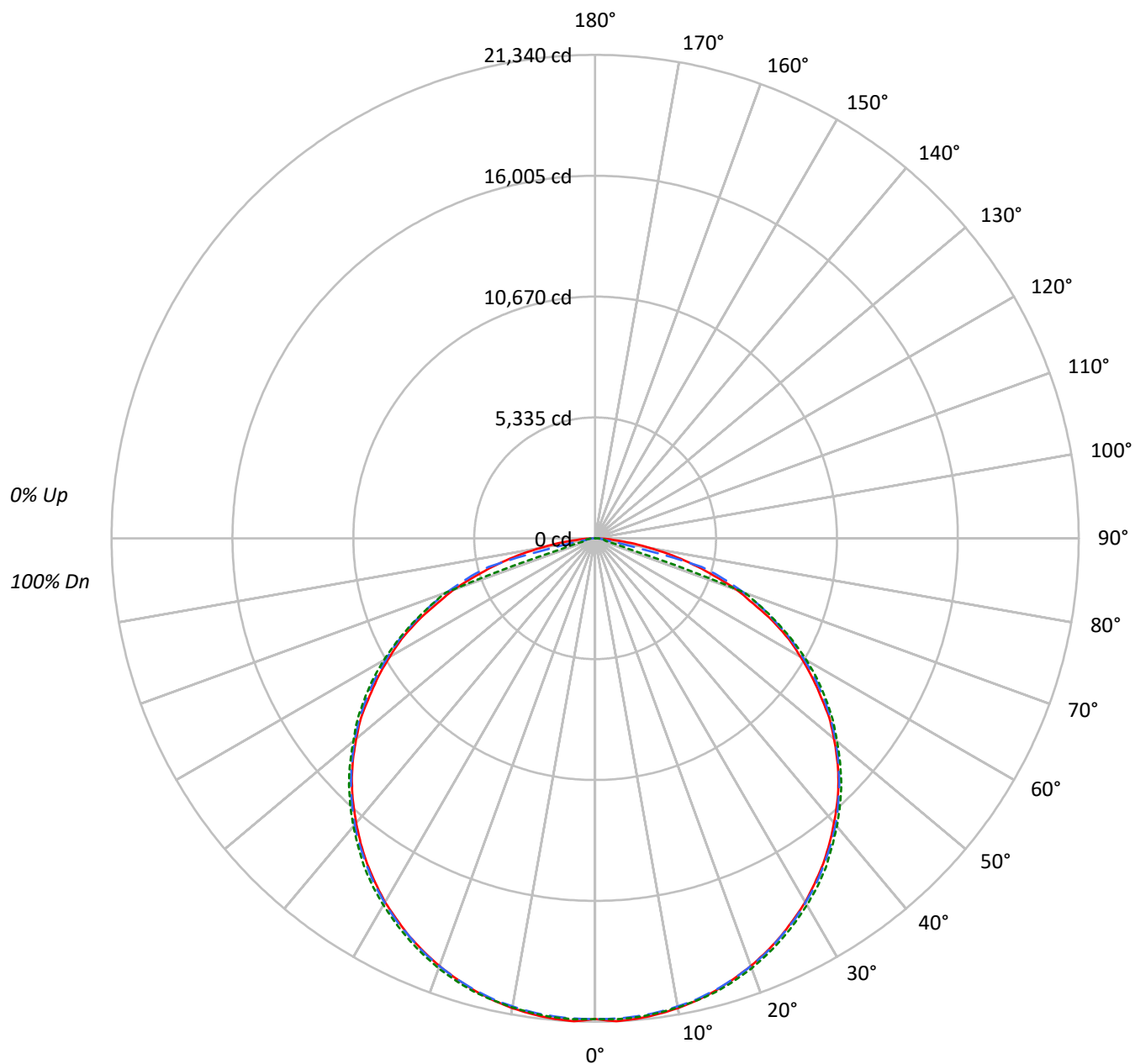
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34264	34264	34264
5°	34510	34334	34395
10°	34529	34405	34475
15°	34524	34477	34635
20°	34522	34530	34708
25°	34538	34555	34766
30°	34576	34620	34849
35°	34570	34682	34971
40°	34575	34794	34984
45°	34672	34802	35082
50°	34567	34769	34995
55°	34187	34666	35038
60°	33798	34348	34775
65°	33051	33738	33990
70°	31378	32717	33118
75°	27987	30346	3657
80°	22505	3781	4000
85°	14976	4904	4993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2015.6	3.2
10°-20°	5824.0	9.2
20°-30°	8948.2	14.1
30°-40°	11015.6	17.4
40°-50°	11743.7	18.5
50°-60°	10978.0	17.3
60°-70°	8690.5	13.7
70°-80°	3697.4	5.8
80°-90°	504.9	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°	16787.8	26.5
0°-40°	27803.4	43.8
0°-60°	50525.2	79.7
0°-90°	63418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	63418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21222	21222	21222	21222	21222	
5°	21292	21198	21184	21099	21222	###
15°	20654	20616	20626	20569	20720	5832
25°	19387	19364	19397	19387	19515	8939
35°	17539	17510	17596	17657	17742	10974
45°	15184	15099	15241	15303	15364	11700
55°	12145	12183	12315	12358	12447	10875
65°	8651	8727	8831	8897	8897	8511
75°	4486	4680	4864	794	586	4746
85°	808	241	265	274	270	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21221.5	21221.5	21221.5	21221.5	21221.5
2.5°	21339.7	21240.4	21221.5	21136.4	21249.8
5°	21292.4	21197.8	21183.7	21098.6	21221.5
7.5°	21193.1	21117.5	21108.0	21018.2	21141.1
10°	21060.7	20989.8	20985.1	20904.7	21027.7
12.5°	20881.1	20819.6	20838.6	20758.2	20881.1
15°	20654.2	20616.4	20625.8	20569.1	20720.4
17.5°	20380.0	20361.1	20380.0	20337.4	20474.5
20°	20091.6	20068.0	20096.3	20072.7	20200.3
22.5°	19756.0	19727.6	19784.3	19751.2	19869.4
25°	19387.2	19363.6	19396.7	19387.2	19514.9
27.5°	18966.5	18942.9	19013.8	19018.5	19117.8
30°	18545.7	18512.7	18569.4	18593.0	18692.3
32.5°	18044.6	18035.2	18120.3	18139.2	18243.2
35°	17538.8	17510.4	17595.5	17657.0	17742.1
37.5°	16985.7	16981.0	17070.8	17122.8	17165.3
40°	16404.2	16380.6	16508.2	16560.2	16598.0
42.5°	15813.3	15761.3	15884.2	15950.4	15992.9
45°	15184.5	15099.4	15241.3	15302.7	15364.2
47.5°	14494.3	14418.7	14555.8	14622.0	14664.5
50°	13761.6	13690.7	13841.9	13898.7	13931.8
52.5°	13024.1	12953.2	13113.9	13161.2	13241.6
55°	12144.8	12182.6	12315.0	12357.5	12447.3
57.5°	11331.7	11364.8	11492.4	11544.4	11648.4
60°	10466.6	10518.6	10636.7	10688.7	10769.1
62.5°	9629.8	9634.5	9776.3	9800.0	9861.4
65°	8651.2	8726.9	8830.9	8897.0	8897.0
67.5°	7559.2	7743.5	7923.2	7909.0	7946.8
70°	6646.8	6717.7	6930.4	6963.5	7015.5
72.5°	5502.7	5687.1	5923.5	4424.9	1503.3
75°	4486.3	4680.2	4864.5	794.2	586.2
77.5°	3484.1	3635.4	1616.8	453.8	444.4
80°	2420.4	2661.5	406.6	416.0	430.2
82.5°	1593.1	1300.0	335.6	368.7	373.5
85°	808.4	241.1	264.7	274.2	269.5
87.5°	264.7	146.6	151.3	156.0	160.7
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)