

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: P731160

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731160
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-L840
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62198.0 lumens
Efficiency: N/A
Efficacy: 175.2 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

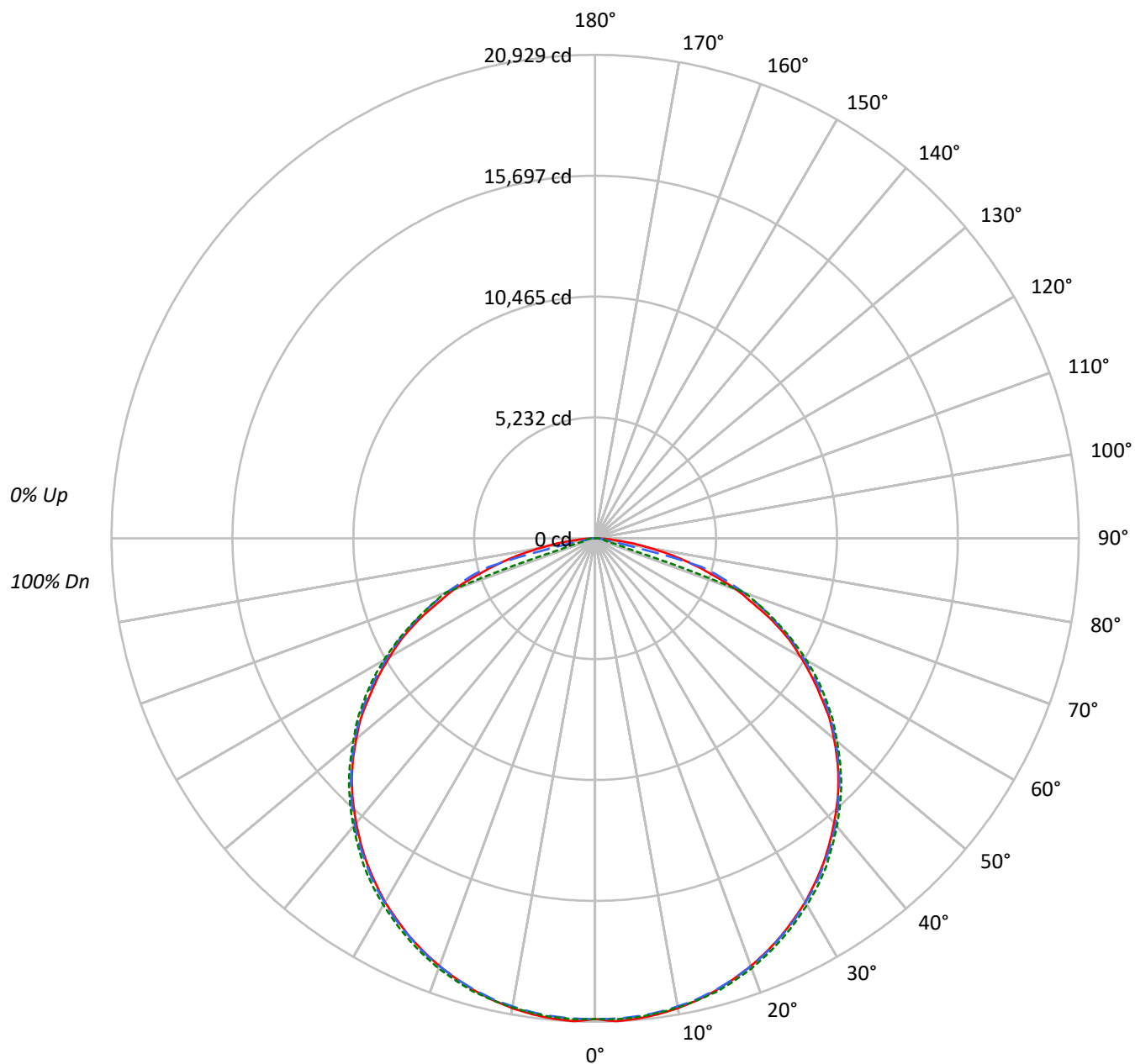
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	33605	33605	33605
5°	33846	33673	33733
10°	33865	33743	33811
15°	33860	33814	33969
20°	33857	33865	34041
25°	33874	33890	34097
30°	33911	33954	34179
35°	33905	34014	34298
40°	33910	34125	34311
45°	34005	34132	34407
50°	33902	34100	34321
55°	33529	33999	34365
60°	33148	33687	34106
65°	32416	33089	33337
70°	30774	32087	32482
75°	27448	29763	3586
80°	22073	3707	3923
85°	14687	4809	4896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1976.8	3.2
10°-20°	5712.0	9.2
20°-30°	8776.1	14.1
30°-40°	10803.7	17.4
40°-50°	11517.8	18.5
50°-60°	10766.8	17.3
60°-70°	8523.3	13.7
70°-80°	3626.3	5.8
80°-90°	495.2	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°	16464.9	26.5
0°-40°	27268.5	43.8
0°-60°	49553.2	79.7
0°-90°	62198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	62198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20813	20813	20813	20813	20813	
5°	20883	20790	20776	20693	20813	###
15°	20257	20220	20229	20173	20322	5720
25°	19014	18991	19024	19014	19140	8767
35°	17201	17174	17257	17317	17401	10763
45°	14892	14809	14948	15008	15069	11475
55°	11911	11948	12078	12120	12208	10666
65°	8485	8559	8661	8726	8726	8347
75°	4400	4590	4771	779	575	4655
85°	793	236	260	269	264	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20813.2	20813.2	20813.2	20813.2	20813.2
2.5°	20929.1	20831.8	20813.2	20729.8	20841.0
5°	20882.8	20790.0	20776.1	20692.7	20813.2
7.5°	20785.4	20711.2	20702.0	20613.9	20734.4
10°	20655.6	20586.0	20581.4	20502.6	20623.1
12.5°	20479.4	20419.1	20437.7	20358.9	20479.4
15°	20256.8	20219.8	20229.0	20173.4	20321.8
17.5°	19987.9	19969.4	19987.9	19946.2	20080.7
20°	19705.1	19681.9	19709.7	19686.6	19811.7
22.5°	19375.9	19348.1	19403.7	19371.3	19487.2
25°	19014.3	18991.1	19023.5	19014.3	19139.5
27.5°	18601.6	18578.4	18648.0	18652.6	18750.0
30°	18189.0	18156.5	18212.2	18235.3	18332.7
32.5°	17697.5	17688.2	17771.7	17790.2	17892.2
35°	17201.4	17173.6	17257.0	17317.3	17400.8
37.5°	16658.9	16654.3	16742.4	16793.4	16835.1
40°	16088.6	16065.5	16190.6	16241.6	16278.7
42.5°	15509.1	15458.1	15578.6	15643.5	15685.3
45°	14892.4	14809.0	14948.1	15008.3	15068.6
47.5°	14215.5	14141.3	14275.8	14340.7	14382.4
50°	13496.8	13427.3	13575.7	13631.3	13663.8
52.5°	12773.5	12704.0	12861.6	12908.0	12986.8
55°	11911.2	11948.2	12078.1	12119.8	12207.9
57.5°	11113.7	11146.1	11271.3	11322.3	11424.3
60°	10265.2	10316.2	10432.1	10483.1	10561.9
62.5°	9444.5	9449.2	9588.3	9611.5	9671.7
65°	8484.8	8559.0	8661.0	8725.9	8725.9
67.5°	7413.8	7594.6	7770.8	7756.9	7793.9
70°	6518.9	6588.5	6797.1	6829.6	6880.6
72.5°	5396.9	5577.7	5809.5	4339.8	1474.4
75°	4400.0	4590.1	4771.0	778.9	574.9
77.5°	3417.1	3565.5	1585.7	445.1	435.8
80°	2373.9	2610.3	398.7	408.0	421.9
82.5°	1562.5	1275.0	329.2	361.6	366.3
85°	792.8	236.5	259.6	268.9	264.3
87.5°	259.6	143.7	148.4	153.0	157.6
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)