

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: P731156

Luminaire Tested: **HBLED-LD5-60HE-W-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731156
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-L735
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63243.0 lumens
Efficiency: N/A
Efficacy: 178.1 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

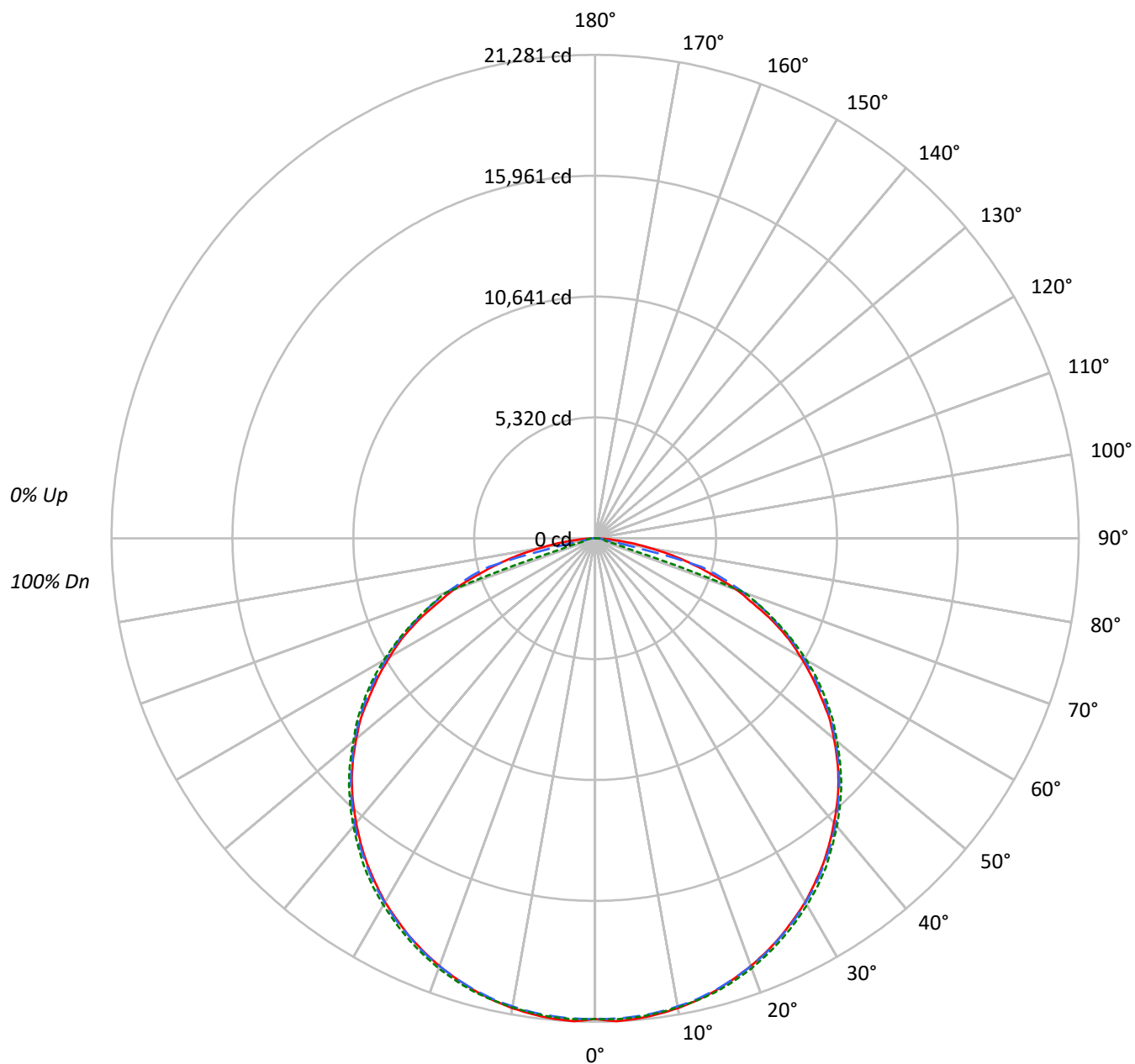
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34169	34169	34169
5°	34414	34239	34300
10°	34434	34310	34380
15°	34429	34382	34539
20°	34426	34434	34613
25°	34443	34460	34670
30°	34481	34524	34753
35°	34474	34586	34874
40°	34480	34698	34887
45°	34576	34705	34985
50°	34472	34673	34898
55°	34093	34570	34942
60°	33705	34253	34679
65°	32960	33645	33897
70°	31291	32626	33027
75°	27910	30263	3647
80°	22444	3769	3989
85°	14935	4891	4978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2010.0	3.2
10°-20°	5807.9	9.2
20°-30°	8923.5	14.1
30°-40°	10985.2	17.4
40°-50°	11711.3	18.5
50°-60°	10947.7	17.3
60°-70°	8666.5	13.7
70°-80°	3687.2	5.8
80°-90°	503.5	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°	16741.5	26.5
0°-40°	27726.7	43.8
0°-60°	50385.8	79.7
0°-90°	63243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	63243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21163	21163	21163	21163	21163	
5°	21234	21139	21125	21040	21163	###
15°	20597	20560	20569	20512	20663	5816
25°	19334	19310	19343	19334	19461	8914
35°	17490	17462	17547	17608	17693	10944
45°	15143	15058	15199	15260	15322	11668
55°	12111	12149	12281	12323	12413	10845
65°	8627	8703	8806	8872	8872	8487
75°	4474	4667	4851	792	585	4733
85°	806	240	264	273	269	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21162.9	21162.9	21162.9	21162.9	21162.9
2.5°	21280.8	21181.8	21162.9	21078.1	21191.2
5°	21233.6	21139.3	21125.2	21040.3	21162.9
7.5°	21134.6	21059.2	21049.8	20960.2	21082.8
10°	21002.6	20931.9	20927.2	20847.1	20969.6
12.5°	20823.5	20762.2	20781.1	20700.9	20823.5
15°	20597.2	20559.5	20568.9	20512.3	20663.2
17.5°	20323.8	20304.9	20323.8	20281.3	20418.0
20°	20036.2	20012.6	20040.9	20017.3	20144.6
22.5°	19701.5	19673.2	19729.7	19696.7	19814.6
25°	19333.7	19310.2	19343.2	19333.7	19461.0
27.5°	18914.2	18890.6	18961.3	18966.0	19065.0
30°	18494.6	18461.6	18518.1	18541.7	18640.7
32.5°	17994.8	17985.4	18070.3	18089.1	18192.8
35°	17490.4	17462.1	17547.0	17608.3	17693.1
37.5°	16938.8	16934.1	17023.7	17075.5	17118.0
40°	16358.9	16335.4	16462.7	16514.5	16552.2
42.5°	15769.6	15717.8	15840.4	15906.4	15948.8
45°	15142.6	15057.8	15199.2	15260.5	15321.8
47.5°	14454.3	14378.9	14515.6	14581.6	14624.1
50°	13723.6	13652.9	13803.7	13860.3	13893.3
52.5°	12988.2	12917.4	13077.7	13124.9	13205.0
55°	12111.3	12149.0	12281.0	12323.4	12413.0
57.5°	11300.4	11333.4	11460.7	11512.6	11616.3
60°	10437.7	10489.5	10607.4	10659.2	10739.4
62.5°	9603.2	9607.9	9749.4	9772.9	9834.2
65°	8627.3	8702.8	8806.5	8872.5	8872.5
67.5°	7538.3	7722.2	7901.3	7887.2	7924.9
70°	6628.4	6699.2	6911.3	6944.3	6996.2
72.5°	5487.6	5671.4	5907.1	4412.7	1499.2
75°	4474.0	4667.3	4851.1	792.0	584.6
77.5°	3474.5	3625.4	1612.3	452.6	443.2
80°	2413.8	2654.2	405.4	414.9	429.0
82.5°	1588.8	1296.5	334.7	367.7	372.4
85°	806.2	240.4	264.0	273.4	268.7
87.5°	264.0	146.1	150.9	155.6	160.3
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)