

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: P731139

Luminaire Tested: **HBLED-LD5-60HE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-AI-UNV-L740
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57471.0 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

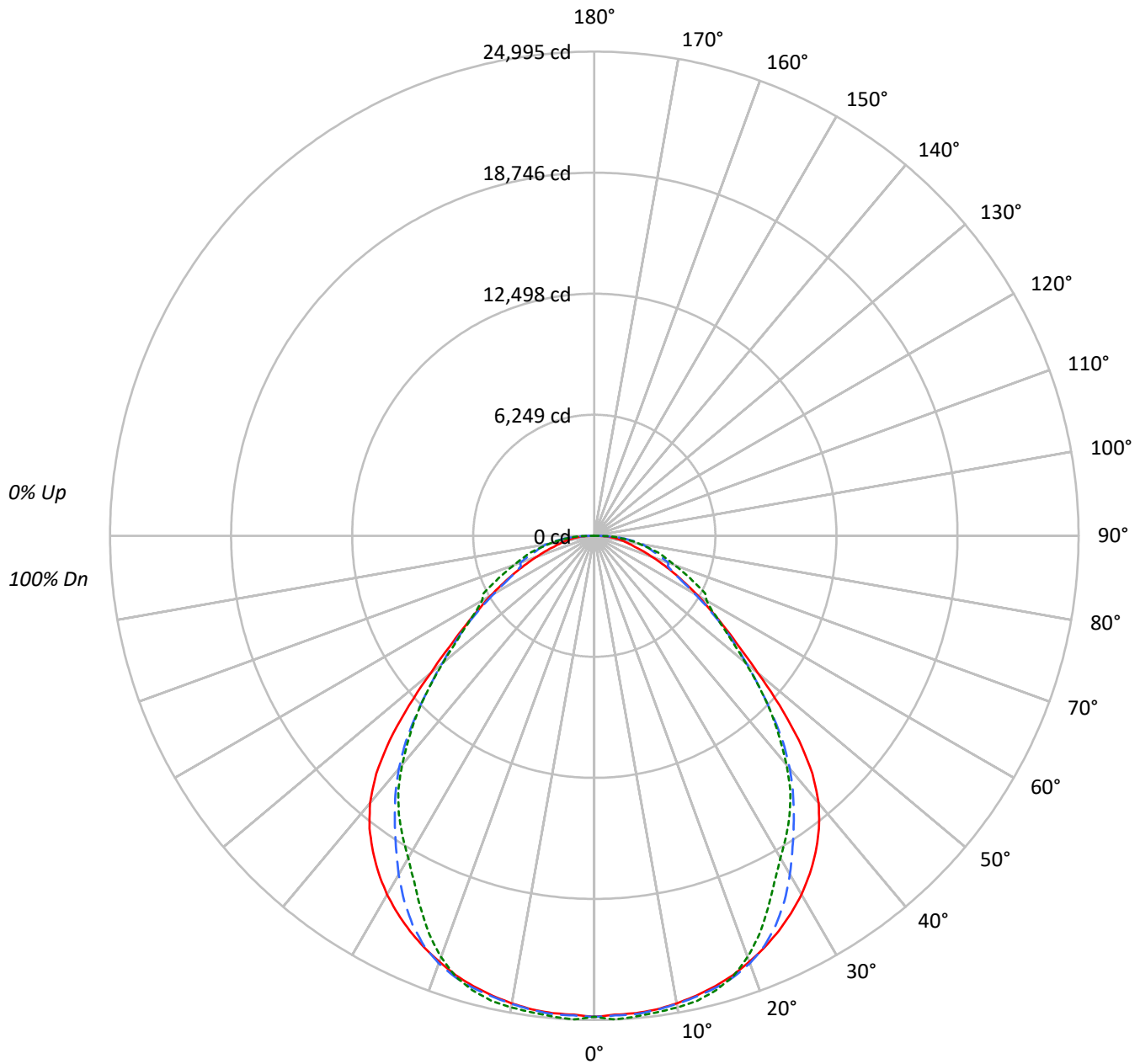
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40089	40089	40089
5°	40087	40174	40370
10°	40186	40237	40532
15°	40248	40399	40596
20°	40208	40357	39758
25°	40106	39505	37787
30°	39870	37642	35807
35°	39269	35379	34642
40°	37956	33079	32534
45°	34116	29538	29429
50°	27670	25728	25552
55°	22976	22549	22540
60°	19892	19312	21590
65°	17240	17133	21763
70°	14865	19219	20745
75°	13331	19697	21627
80°	13856	23187	21697
85°	15728	26723	24792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2364.1	4.1
10°-20°	6827.6	11.9
20°-30°	10140.5	17.6
30°-40°	11512.2	20.0
40°-50°	10291.5	17.9
50°-60°	7115.6	12.4
60°-70°	4695.3	8.2
70°-80°	3167.7	5.5
80°-90°	1356.7	2.4
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°	19332.1	33.6
0°-40°	30844.4	53.7
0°-60°	48251.4	84.0
0°-90°	57471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24829	24829	24829	24829	24829	
5°	24734	24886	24787	24888	24908	###
15°	24078	24194	24169	24303	24287	6797
25°	22512	22726	22175	21514	21211	10373
35°	19923	19504	17949	17688	17575	12424
45°	14941	13676	12936	13035	12888	11362
55°	8162	7451	8010	7898	8007	7414
65°	4513	4006	4484	5244	5696	4503
75°	2137	2688	3158	3374	3467	2334
85°	849	1181	1442	1451	1338	885
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24829.3	24829.3	24829.3	24829.3	24829.3
2.5°	24745.0	24899.6	24784.3	24891.2	24995.0
5°	24733.6	24885.5	24787.0	24888.2	24908.0
7.5°	24663.3	24803.8	24688.5	24787.0	24809.5
10°	24511.4	24677.4	24542.3	24694.2	24722.4
12.5°	24314.8	24483.5	24365.2	24573.3	24584.7
15°	24078.5	24193.8	24168.6	24303.4	24286.6
17.5°	23780.4	23912.8	23893.0	23926.6	23848.0
20°	23401.0	23549.9	23488.0	23333.4	23139.5
22.5°	22993.3	23173.1	22928.7	22537.9	22265.0
25°	22512.4	22726.1	22175.2	21514.5	21210.7
27.5°	21981.0	22172.2	21255.7	20446.0	20131.1
30°	21385.1	21466.4	20190.0	19419.6	19205.9
32.5°	20696.1	20578.1	19051.3	18542.4	18418.8
35°	19923.1	19504.0	17949.2	17687.8	17575.2
37.5°	19051.3	18284.0	16861.3	16740.3	16622.0
40°	18008.4	16875.1	15694.4	15615.7	15435.6
42.5°	16661.6	15342.9	14398.1	14305.4	14145.1
45°	14940.9	13675.5	12936.1	13034.6	12888.4
47.5°	12961.3	12002.8	11533.3	11803.1	11533.3
50°	11015.7	10372.1	10242.7	10487.3	10172.4
52.5°	9421.6	8842.5	9109.7	9151.7	8963.5
55°	8162.0	7450.8	8010.3	7897.8	8007.4
57.5°	7065.6	6269.8	6958.7	6829.4	7206.1
60°	6160.2	5266.2	5980.4	5952.2	6685.9
62.5°	5271.9	4557.7	5131.1	5544.5	6446.9
65°	4512.7	4006.5	4484.5	5243.7	5696.4
67.5°	3784.4	3593.2	4102.0	4523.8	5018.8
70°	3148.9	3247.3	4071.1	3992.4	4394.4
72.5°	2614.8	2949.5	3593.2	3607.3	3891.3
75°	2136.9	2688.0	3157.5	3374.0	3466.8
77.5°	1776.9	2437.7	2851.0	2927.0	2836.9
80°	1490.2	2148.0	2493.8	2460.2	2333.5
82.5°	1203.2	1628.0	1965.4	1996.3	1847.2
85°	849.0	1181.0	1442.5	1450.9	1338.3
87.5°	455.4	728.3	874.5	899.7	832.2
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)