

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: P730226

Luminaire Tested: **HBLED-LD5-12HE-N-CL-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CL-UNV-L735
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11439.0 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

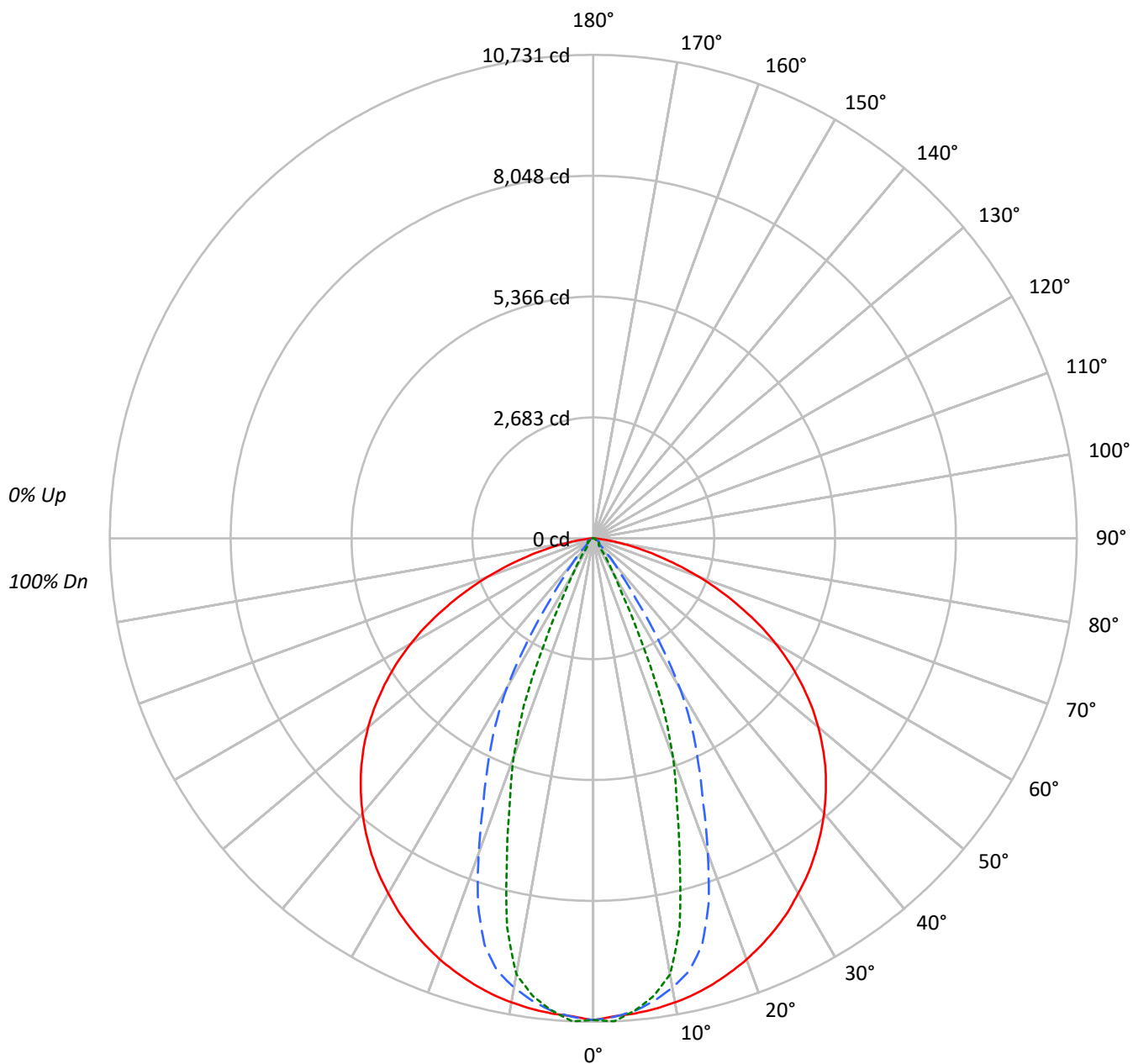
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17269	17269	17269
5°	17163	17074	17061
10°	17152	16602	16112
15°	17132	15611	12388
20°	17099	12775	8886
25°	17045	9843	4516
30°	16964	7184	1643
35°	16904	3299	572
40°	16800	1497	395
45°	16650	559	400
50°	16385	406	421
55°	15900	427	321
60°	15109	456	283
65°	13702	347	230
70°	11748	251	212
75°	8980	222	201
80°	5619	208	219
85°	1775	243	295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.8	8.7
10°-20°	2508.4	21.9
20°-30°	2731.8	23.9
30°-40°	2043.5	17.9
40°-50°	1469.3	12.8
50°-60°	902.4	7.9
60°-70°	519.2	4.5
70°-80°	231.8	2.0
80°-90°	36.8	0.3
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°	6236.0	54.5
0°-40°	8279.5	72.4
0°-60°	10651.2	93.1
0°-90°	11439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10696	10696	10696	10696	10696	
5°	10590	10639	10534	10544	10527	###
15°	10249	10053	9340	8021	7411	2893
25°	9568	8881	5525	3545	2535	4410
35°	8576	6151	1674	492	290	5365
45°	7292	3456	245	181	175	5618
55°	5648	718	152	147	114	5036
65°	3587	79	91	76	60	3550
75°	1440	48	36	37	32	1562
85°	96	9	13	17	16	191
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10695.7	10695.7	10695.7	10695.7	10695.7
2.5°	10621.3	10690.8	10632.3	10684.8	10731.3
5°	10589.6	10639.4	10534.3	10544.1	10526.7
7.5°	10534.8	10546.9	10357.0	10283.6	10248.0
10°	10461.5	10429.2	10126.0	9951.4	9827.2
12.5°	10369.0	10262.3	9838.6	9215.3	8843.7
15°	10249.2	10052.7	9339.5	8021.0	7411.3
17.5°	10106.3	9833.7	8513.0	6685.0	6157.4
20°	9951.4	9591.8	7435.3	5684.0	5171.6
22.5°	9768.6	9282.6	6372.5	4727.2	4023.9
25°	9567.7	8881.4	5525.2	3545.0	2534.7
27.5°	9351.0	8352.1	4740.9	2173.9	1370.5
30°	9099.2	7707.9	3853.1	1220.0	881.2
32.5°	8853.5	6957.0	2752.5	812.7	563.2
35°	8576.0	6150.8	1673.7	492.1	290.1
37.5°	8282.1	5417.9	1047.6	267.6	200.3
40°	7970.6	4722.8	710.4	189.9	187.2
42.5°	7637.9	4093.9	444.9	180.6	186.6
45°	7292.0	3455.8	244.7	181.2	175.2
47.5°	6916.5	2762.9	170.8	171.3	170.8
50°	6523.0	1981.8	161.5	169.1	167.5
52.5°	6098.8	1230.4	162.0	165.3	148.3
55°	5648.4	718.1	151.6	146.7	113.9
57.5°	5174.9	447.7	148.3	121.0	102.3
60°	4679.0	236.5	141.2	108.9	87.6
62.5°	4150.9	116.6	113.3	93.0	71.7
65°	3586.6	78.8	90.9	75.5	60.2
67.5°	3041.5	71.1	68.4	61.8	52.5
70°	2488.7	65.1	53.1	54.2	44.9
72.5°	1946.3	59.1	42.7	46.5	37.8
75°	1439.5	47.6	35.6	36.6	32.3
77.5°	1001.6	37.2	27.9	31.2	30.1
80°	604.3	23.6	22.4	25.7	23.6
82.5°	292.8	15.3	17.5	20.2	18.6
85°	95.8	9.3	13.1	17.0	15.9
87.5°	12.0	5.5	10.9	14.8	13.7
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)