

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: P730374

Luminaire Tested: **HBLED-LD5-15HE-N-CL-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730374
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-LD5-15HE-N-CL-UNV-L840
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14378.0 lumens
Efficiency: N/A
Efficacy: 157.7 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

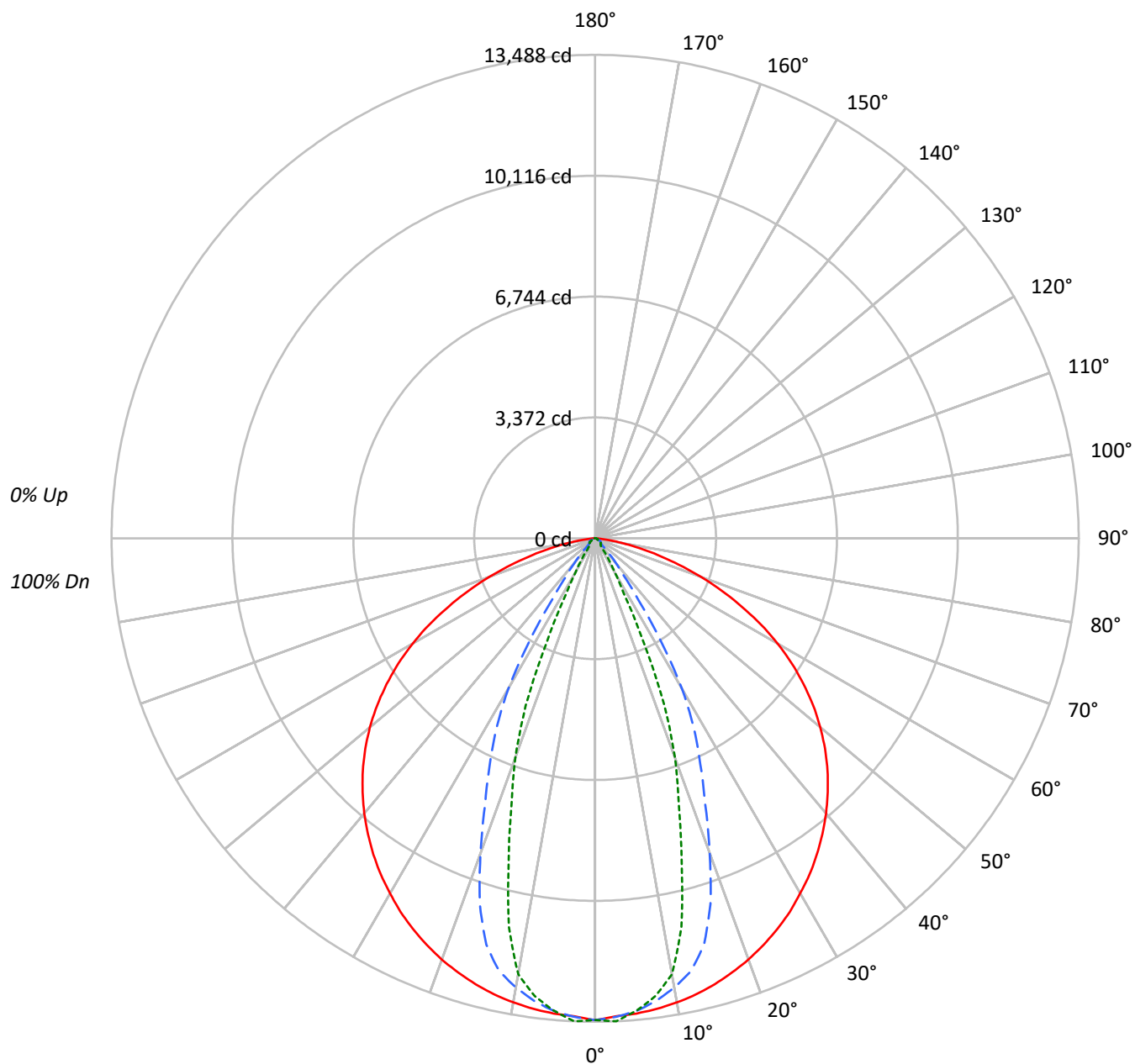
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21706	21706	21706
5°	21573	21460	21445
10°	21558	20867	20251
15°	21533	19622	15571
20°	21492	16058	11169
25°	21424	12372	5676
30°	21323	9029	2065
35°	21247	4146	719
40°	21116	1882	496
45°	20928	702	503
50°	20594	510	529
55°	19985	537	403
60°	18991	573	355
65°	17223	436	289
70°	14767	315	266
75°	11287	279	253
80°	7062	262	275
85°	2230	306	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1251.6	8.7
10°-20°	3152.9	21.9
20°-30°	3433.7	23.9
30°-40°	2568.5	17.9
40°-50°	1846.9	12.8
50°-60°	1134.2	7.9
60°-70°	652.7	4.5
70°-80°	291.3	2.0
80°-90°	46.2	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°	7838.2	54.5
0°-40°	10406.7	72.4
0°-60°	13387.8	93.1
0°-90°	14378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13444	13444	13444	13444	13444	
5°	13310	13373	13241	13253	13231	###
15°	12882	12636	11739	10082	9315	3637
25°	12026	11163	6945	4456	3186	5544
35°	10779	7731	2104	618	365	6743
45°	9166	4344	308	228	220	7061
55°	7100	903	191	184	143	6330
65°	4508	99	114	95	76	4462
75°	1809	60	45	46	41	1963
85°	120	12	16	21	20	240
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13443.8	13443.8	13443.8	13443.8	13443.8
2.5°	13350.3	13437.6	13364.0	13430.0	13488.5
5°	13310.4	13373.0	13240.9	13253.2	13231.2
7.5°	13241.5	13256.7	13018.0	12925.8	12881.1
10°	13149.3	13108.8	12727.7	12508.2	12352.1
12.5°	13033.1	12899.0	12366.5	11582.9	11115.8
15°	12882.4	12635.5	11739.1	10081.9	9315.4
17.5°	12702.9	12360.3	10700.3	8402.5	7739.4
20°	12508.2	12056.2	9345.7	7144.3	6500.4
22.5°	12278.4	11667.5	8009.7	5941.8	5057.8
25°	12026.0	11163.3	6944.8	4455.8	3185.9
27.5°	11753.6	10498.0	5958.9	2732.5	1722.6
30°	11437.1	9688.3	4843.1	1533.4	1107.6
32.5°	11128.2	8744.5	3459.7	1021.6	707.9
35°	10779.4	7731.1	2103.7	618.5	364.6
37.5°	10409.9	6809.9	1316.7	336.4	251.8
40°	10018.5	5936.2	892.9	238.7	235.3
42.5°	9600.2	5145.8	559.3	227.0	234.6
45°	9165.5	4343.7	307.5	227.7	220.2
47.5°	8693.6	3472.8	214.7	215.3	214.7
50°	8198.9	2491.0	203.0	212.6	210.5
52.5°	7665.8	1546.5	203.6	207.8	186.4
55°	7099.6	902.6	190.6	184.4	143.1
57.5°	6504.5	562.7	186.4	152.1	128.6
60°	5881.2	297.2	177.5	136.9	110.0
62.5°	5217.3	146.6	142.4	117.0	90.1
65°	4508.1	99.1	114.2	94.9	75.7
67.5°	3822.9	89.4	86.0	77.7	66.0
70°	3128.1	81.8	66.7	68.1	56.4
72.5°	2446.4	74.3	53.6	58.5	47.5
75°	1809.3	59.9	44.7	46.1	40.6
77.5°	1258.9	46.8	35.1	39.2	37.8
80°	759.5	29.6	28.2	32.3	29.6
82.5°	368.0	19.2	22.0	25.4	23.4
85°	120.4	11.7	16.5	21.3	20.0
87.5°	15.1	6.9	13.7	18.6	17.2
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)