

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: P730392

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-UNV-L840
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15350.0 lumens
Efficiency: N/A
Efficacy: 168.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

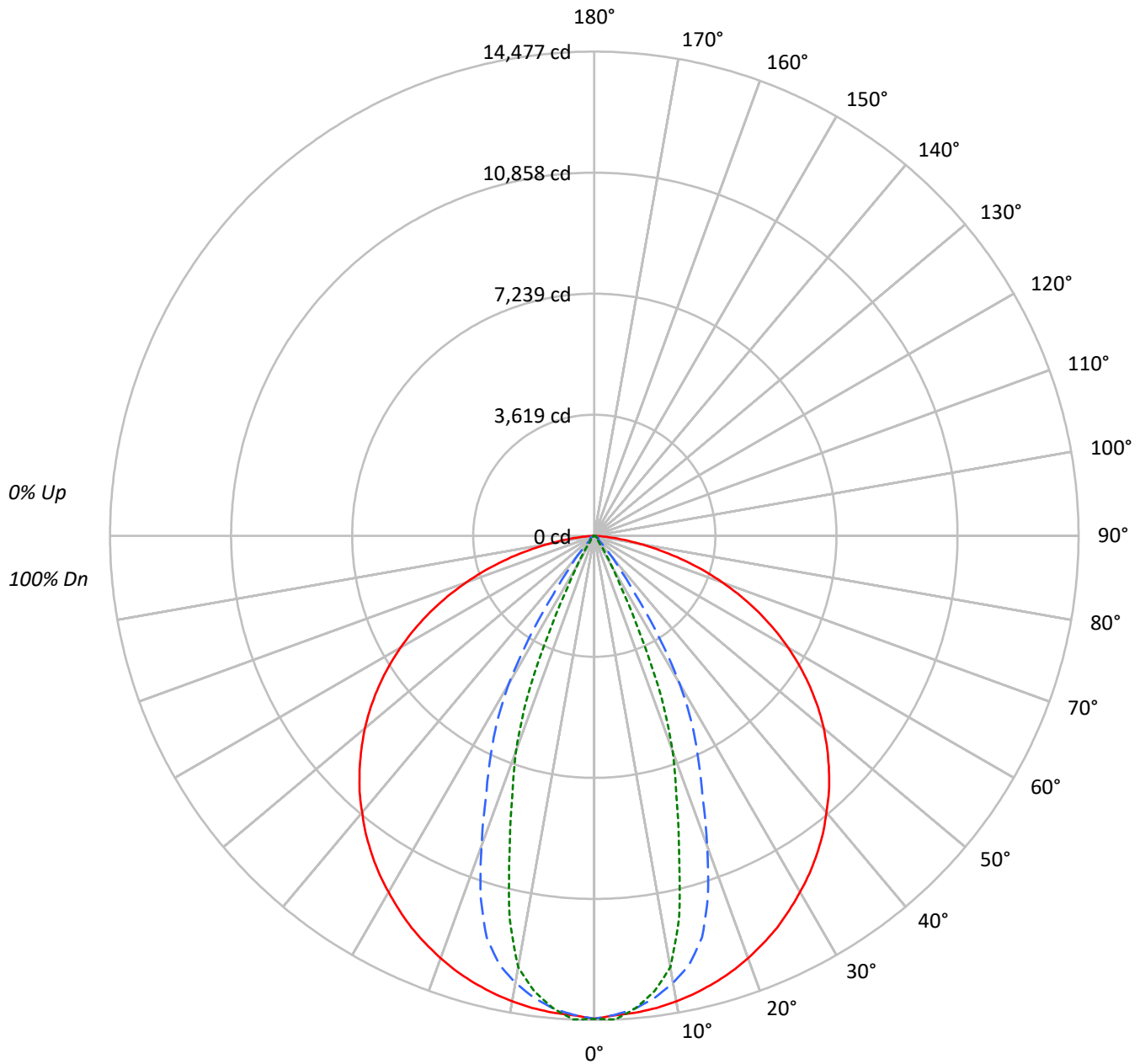
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23318	23318	23318
5°	23193	22988	22978
10°	23179	22252	21471
15°	23146	20788	16341
20°	23092	16947	11762
25°	23033	13103	5794
30°	22932	9523	1879
35°	22877	4225	483
40°	22757	1716	326
45°	22656	482	347
50°	22479	342	385
55°	22155	406	164
60°	21608	452	100
65°	20720	288	118
70°	19249	256	146
75°	16839	193	201
80°	12590	236	287
85°	6236	306	382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1340.2	8.7
10°-20°	3351.3	21.8
20°-30°	3629.9	23.6
30°-40°	2688.1	17.5
40°-50°	1936.1	12.6
50°-60°	1198.8	7.8
60°-70°	737.3	4.8
70°-80°	388.7	2.5
80°-90°	79.6	0.5
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°	8321.4	54.2
0°-40°	11009.5	71.7
0°-60°	14144.5	92.1
0°-90°	15350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14442	14442	14442	14442	14442	
5°	14310	14363	14184	14194	14178	###
15°	13847	13526	12437	10576	9776	3909
25°	12929	11843	7355	4627	3252	5957
35°	11607	8182	2144	504	245	7261
45°	9922	4610	211	152	152	7652
55°	7871	950	144	130	58	7026
65°	5423	100	76	48	31	5351
75°	2699	23	31	41	32	2851
85°	337	9	16	25	21	509
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14442.0	14442.0	14442.0	14442.0	14442.0
2.5°	14349.2	14440.6	14332.8	14413.2	14477.0
5°	14310.1	14363.0	14183.7	14193.9	14177.5
7.5°	14241.3	14229.0	13927.4	13795.5	13737.8
10°	14137.7	14055.9	13572.2	13296.7	13096.1
12.5°	14003.7	13820.9	13129.1	12253.1	11709.0
15°	13847.0	13525.5	12436.6	10576.1	9775.7
17.5°	13660.1	13204.6	11304.3	8864.0	8149.5
20°	13439.6	12846.7	9862.9	7541.5	6845.6
22.5°	13193.6	12411.1	8462.8	6267.7	5275.0
25°	12929.1	11843.0	7355.3	4627.1	3252.4
27.5°	12623.4	11112.7	6316.5	2725.5	1659.9
30°	12299.9	10233.2	5108.0	1466.1	1007.9
32.5°	11973.5	9236.4	3614.4	915.8	571.6
35°	11606.6	8182.5	2143.5	504.3	245.3
37.5°	11223.9	7216.5	1266.9	229.5	157.3
40°	10797.3	6333.7	814.1	152.5	154.5
42.5°	10385.1	5510.7	458.3	150.4	153.2
45°	9922.0	4609.9	210.9	152.5	151.8
47.5°	9443.2	3676.2	136.7	153.9	153.9
50°	8949.2	2628.6	136.0	157.3	153.2
52.5°	8427.8	1640.0	141.5	156.7	125.7
55°	7870.6	949.5	144.3	130.5	58.4
57.5°	7293.5	559.9	145.7	74.9	33.0
60°	6691.6	309.8	140.1	55.6	30.9
62.5°	6071.2	147.7	110.6	52.2	30.2
65°	5423.4	100.3	75.5	48.1	30.9
67.5°	4750.8	77.6	59.7	45.3	31.6
70°	4077.5	57.7	54.3	45.3	30.9
72.5°	3393.2	39.2	45.3	46.0	30.9
75°	2699.3	23.4	30.9	40.6	32.3
77.5°	2011.6	14.4	24.0	41.9	39.2
80°	1354.1	12.3	25.4	39.2	30.9
82.5°	794.9	11.0	24.8	30.2	24.8
85°	336.6	9.0	16.5	24.8	20.6
87.5°	63.2	7.6	13.1	19.9	17.9
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)