

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: P730391

Luminaire Tested: **HBLED-LD5-15HE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730391
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-L835
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14920.0 lumens
Efficiency: N/A
Efficacy: 163.6 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

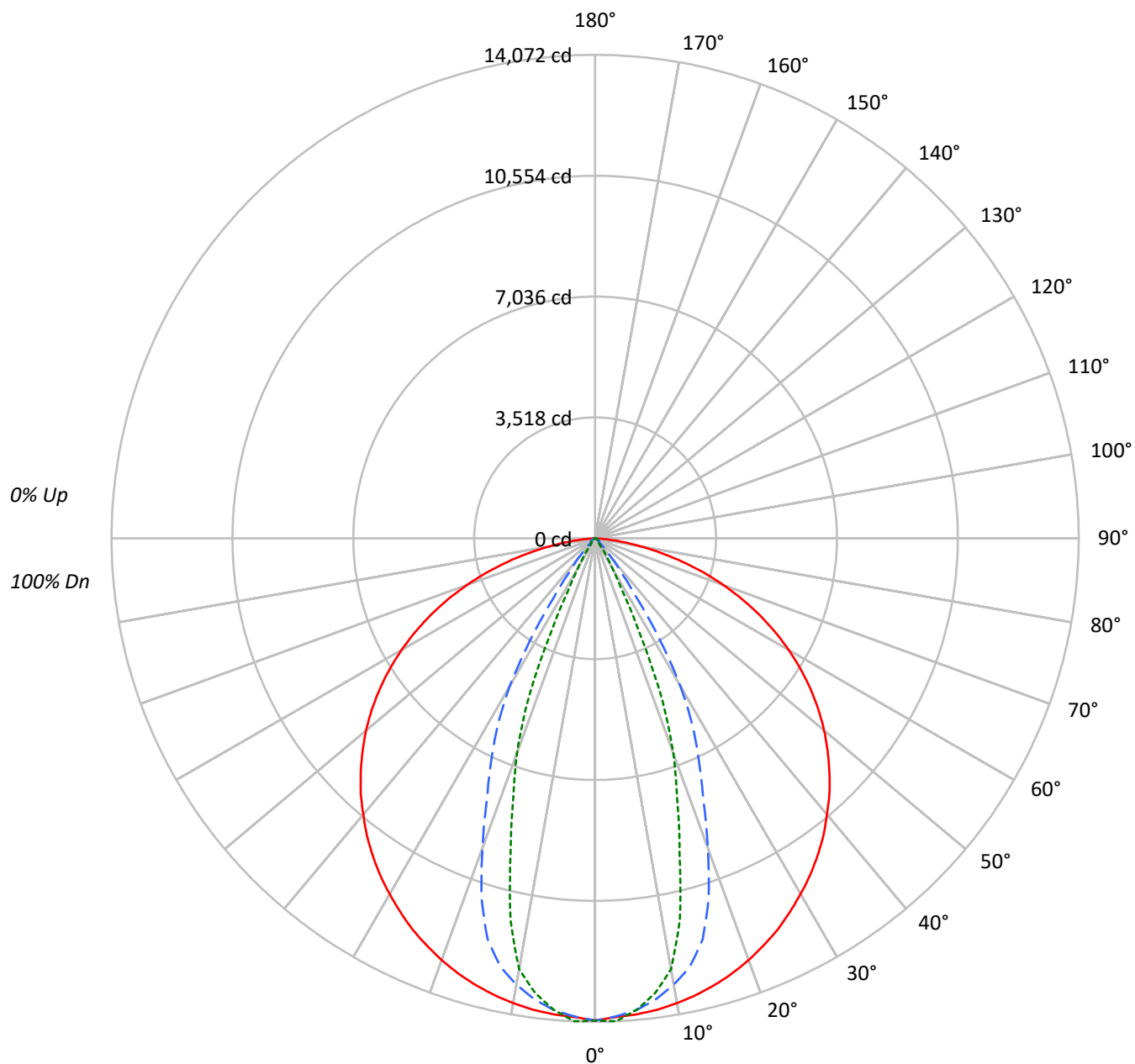
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22665	22665	22665
5°	22543	22344	22334
10°	22529	21628	20869
15°	22497	20206	15883
20°	22445	16472	11433
25°	22388	12736	5632
30°	22289	9256	1827
35°	22236	4107	470
40°	22120	1668	317
45°	22021	468	337
50°	21849	332	374
55°	21535	395	160
60°	21003	440	97
65°	20139	280	115
70°	18710	249	142
75°	16367	188	196
80°	12238	230	280
85°	6061	296	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.7	8.7
10°-20°	3257.4	21.8
20°-30°	3528.2	23.6
30°-40°	2612.8	17.5
40°-50°	1881.9	12.6
50°-60°	1165.3	7.8
60°-70°	716.6	4.8
70°-80°	377.8	2.5
80°-90°	77.3	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°	8088.3	54.2
0°-40°	10701.1	71.7
0°-60°	13748.3	92.1
0°-90°	14920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14037	14037	14037	14037	14037	
5°	13909	13961	13786	13796	13780	###
15°	13459	13147	12088	10280	9502	3799
25°	12567	11511	7149	4498	3161	5790
35°	11282	7953	2084	490	238	7058
45°	9644	4481	205	148	148	7438
55°	7650	923	140	127	57	6829
65°	5271	98	73	47	30	5201
75°	2624	23	30	39	31	2771
85°	327	9	16	24	20	494
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14037.4	14037.4	14037.4	14037.4	14037.4
2.5°	13947.3	14036.1	13931.3	14009.4	14071.5
5°	13909.2	13960.6	13786.3	13796.3	13780.3
7.5°	13842.4	13830.4	13537.3	13409.0	13353.0
10°	13741.6	13662.1	13192.0	12924.2	12729.2
12.5°	13611.4	13433.8	12761.3	11909.9	11381.0
15°	13459.1	13146.6	12088.2	10279.9	9501.8
17.5°	13277.5	12834.7	10987.7	8615.7	7921.2
20°	13063.1	12486.8	9586.6	7330.2	6653.8
22.5°	12824.0	12063.5	8225.8	6092.2	5127.2
25°	12567.0	11511.2	7149.2	4497.5	3161.3
27.5°	12269.8	10801.4	6139.6	2649.1	1613.4
30°	11955.3	9946.6	4964.9	1425.0	979.7
32.5°	11638.1	8977.6	3513.2	890.2	555.6
35°	11281.5	7953.3	2083.5	490.1	238.4
37.5°	10909.5	7014.4	1231.4	223.1	152.9
40°	10494.9	6156.3	791.3	148.2	150.2
42.5°	10094.2	5356.3	445.4	146.2	148.9
45°	9644.1	4480.8	205.0	148.2	147.6
47.5°	9178.6	3573.3	132.9	149.6	149.6
50°	8698.5	2555.0	132.2	152.9	148.9
52.5°	8191.7	1594.0	137.6	152.3	122.2
55°	7650.1	922.9	140.2	126.9	56.8
57.5°	7089.2	544.2	141.6	72.8	32.1
60°	6504.2	301.1	136.2	54.1	30.1
62.5°	5901.2	143.6	107.5	50.8	29.4
65°	5271.4	97.5	73.4	46.7	30.1
67.5°	4617.7	75.4	58.1	44.1	30.7
70°	3963.3	56.1	52.8	44.1	30.1
72.5°	3298.2	38.1	44.1	44.7	30.1
75°	2623.7	22.7	30.1	39.4	31.4
77.5°	1955.2	14.0	23.4	40.7	38.1
80°	1316.2	12.0	24.7	38.1	30.1
82.5°	772.7	10.7	24.1	29.4	24.1
85°	327.2	8.7	16.0	24.1	20.0
87.5°	61.4	7.4	12.7	19.4	17.4
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)