

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: P730427

Luminaire Tested: **HBLED-LD5-15HE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-FLI-UNV-L835
Description: 15000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13758.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

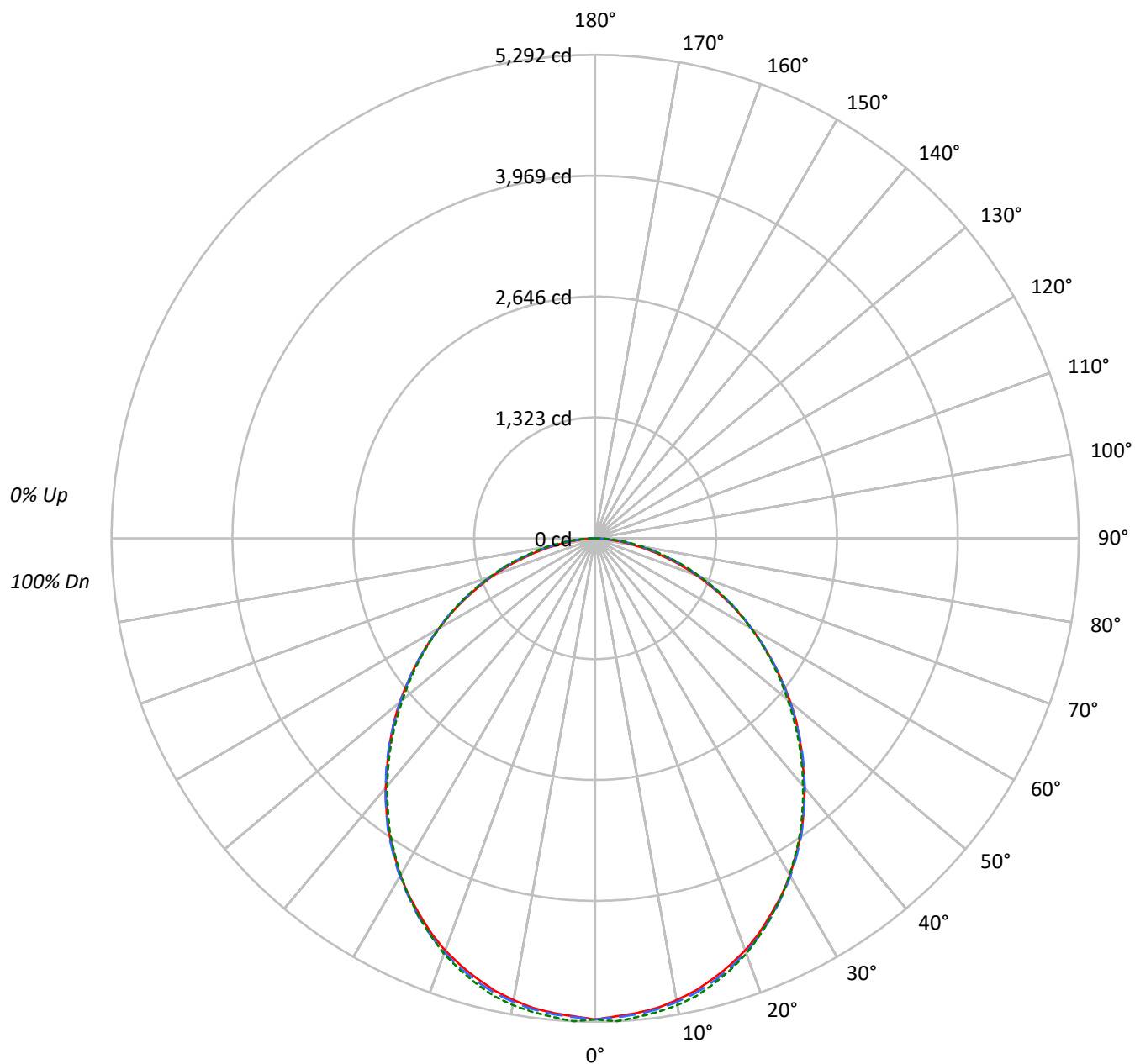
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8504	8504	8504
5°	8455	8479	8528
10°	8417	8451	8506
15°	8343	8388	8429
20°	8249	8288	8313
25°	8096	8142	8130
30°	7947	7968	7935
35°	7750	7770	7720
40°	7517	7517	7459
45°	7254	7274	7200
50°	7005	6993	6906
55°	6702	6703	6642
60°	6377	6385	6360
65°	6010	6071	6086
70°	5551	5704	5710
75°	4906	5224	5305
80°	4024	4575	4833
85°	2792	3840	4344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.1	3.6
10°-20°	1417.1	10.3
20°-30°	2105.8	15.3
30°-40°	2462.3	17.9
40°-50°	2454.9	17.8
50°-60°	2130.0	15.5
60°-70°	1573.2	11.4
70°-80°	880.8	6.4
80°-90°	235.0	1.7
90°-100°	0.7	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°	4021.0	29.2
0°-40°	6483.3	47.1
0°-60°	11068.2	80.4
0°-90°	13757.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	13758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5267	5267	5267	5267	5267	
5°	5217	5250	5232	5255	5262	496
15°	4991	5026	5018	5043	5043	1408
25°	4544	4581	4570	4580	4564	2095
35°	3932	3966	3942	3941	3917	2456
45°	3177	3211	3186	3173	3153	2452
55°	2381	2397	2381	2377	2360	2129
65°	1573	1589	1589	1597	1593	1556
75°	786	810	837	843	850	838
85°	151	182	207	226	234	183
90°	0	3	4	9	8	6
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5266.9	5266.9	5266.9	5266.9	5266.9
2.5°	5238.2	5269.3	5247.5	5268.3	5292.4
5°	5217.0	5249.9	5231.8	5254.9	5261.6
7.5°	5186.3	5218.1	5200.7	5223.8	5230.8
10°	5134.0	5168.5	5154.8	5180.9	5188.3
12.5°	5073.0	5105.5	5096.5	5126.9	5132.0
15°	4991.3	5026.2	5018.4	5042.6	5042.9
17.5°	4900.9	4933.7	4928.0	4946.8	4946.1
20°	4800.8	4835.9	4823.9	4844.3	4837.9
22.5°	4682.2	4719.7	4704.6	4721.7	4705.6
25°	4544.5	4581.0	4570.3	4580.3	4563.6
27.5°	4411.2	4444.7	4422.5	4434.6	4416.9
30°	4262.5	4290.9	4273.9	4277.9	4256.4
32.5°	4095.3	4129.2	4108.4	4107.7	4084.9
35°	3931.9	3966.3	3941.9	3941.2	3916.8
37.5°	3751.0	3783.2	3754.4	3756.0	3727.6
40°	3566.4	3594.3	3566.4	3565.1	3539.0
42.5°	3366.1	3403.0	3377.6	3380.5	3345.7
45°	3176.9	3210.8	3185.7	3172.6	3153.1
47.5°	2988.4	3003.1	2982.3	2979.0	2951.5
50°	2788.7	2799.8	2784.0	2780.0	2749.2
52.5°	2582.4	2601.5	2581.4	2576.0	2555.6
55°	2380.8	2397.1	2381.1	2377.1	2359.6
57.5°	2177.8	2199.2	2182.8	2178.8	2164.8
60°	1974.8	1981.2	1977.2	1983.2	1969.5
62.5°	1773.2	1787.9	1792.6	1790.9	1780.2
65°	1573.2	1588.6	1589.0	1597.0	1593.0
67.5°	1368.6	1388.6	1394.4	1402.7	1406.4
70°	1175.9	1191.4	1208.2	1213.1	1209.5
72.5°	982.0	1006.8	1025.6	1029.9	1045.7
75°	786.4	809.9	837.4	843.4	850.4
77.5°	604.9	636.0	660.8	668.9	677.6
80°	432.8	467.2	492.0	503.1	519.8
82.5°	284.0	319.2	344.3	355.4	375.8
85°	150.7	182.2	207.3	225.7	234.5
87.5°	44.5	71.3	85.7	91.1	98.8
90°	0.0	3.4	4.0	9.0	8.4
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)