

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: P730429

Luminaire Tested: **HBLED-LD5-15HE-W-FLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730429
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-L850
Description: 15000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14432.0 lumens
Efficiency: N/A
Efficacy: 158.2 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

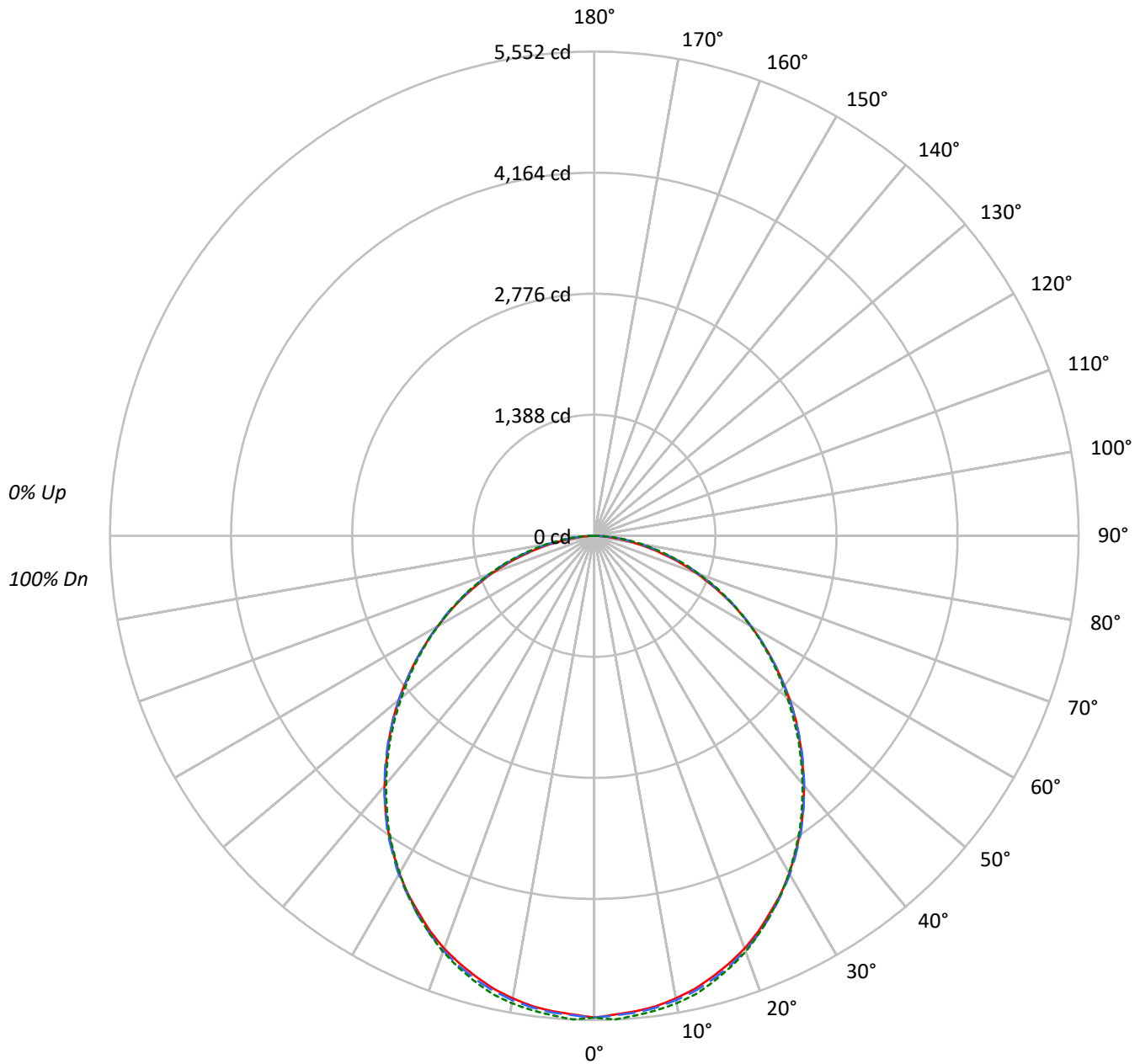
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8921	8921	8921
5°	8870	8895	8946
10°	8829	8865	8923
15°	8752	8800	8842
20°	8653	8694	8720
25°	8493	8541	8528
30°	8336	8359	8324
35°	8130	8150	8098
40°	7885	7885	7825
45°	7610	7630	7552
50°	7348	7336	7244
55°	7030	7031	6968
60°	6690	6697	6671
65°	6305	6368	6384
70°	5824	5983	5989
75°	5147	5480	5565
80°	4221	4799	5070
85°	2929	4029	4555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.5	3.6
10°-20°	1486.5	10.3
20°-30°	2209.0	15.3
30°-40°	2582.9	17.9
40°-50°	2575.2	17.8
50°-60°	2234.3	15.5
60°-70°	1650.3	11.4
70°-80°	924.0	6.4
80°-90°	246.5	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°	4218.0	29.2
0°-40°	6800.9	47.1
0°-60°	11610.4	80.4
0°-90°	14431.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	14432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5525	5525	5525	5525	5525	
5°	5473	5507	5488	5512	5519	520
15°	5236	5272	5264	5290	5290	1477
25°	4767	4805	4794	4805	4787	2198
35°	4124	4161	4135	4134	4109	2576
45°	3333	3368	3342	3328	3308	2573
55°	2497	2515	2498	2494	2475	2233
65°	1650	1666	1667	1675	1671	1632
75°	825	850	878	885	892	879
85°	158	191	218	237	246	192
90°	0	4	4	10	9	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°	5525.0	5525.0	5525.0	5525.0	5525.0
2.5°	5494.8	5527.5	5504.6	5526.4	5551.7
5°	5472.6	5507.1	5488.1	5512.3	5519.4
7.5°	5440.3	5473.7	5455.4	5479.7	5487.1
10°	5385.5	5421.7	5407.3	5434.7	5442.4
12.5°	5321.6	5355.6	5346.1	5378.1	5383.4
15°	5235.8	5272.4	5264.3	5289.6	5289.9
17.5°	5141.0	5175.4	5169.4	5189.1	5188.4
20°	5035.9	5072.8	5060.2	5081.6	5074.9
22.5°	4911.5	4950.9	4935.0	4953.0	4936.1
25°	4767.1	4805.4	4794.2	4804.7	4787.2
27.5°	4627.3	4662.4	4639.2	4651.9	4633.2
30°	4471.3	4501.1	4483.3	4487.5	4465.0
32.5°	4296.0	4331.4	4309.6	4309.0	4285.1
35°	4124.5	4160.7	4135.1	4134.3	4108.7
37.5°	3934.8	3968.5	3938.3	3940.0	3910.2
40°	3741.2	3770.4	3741.2	3739.7	3712.4
42.5°	3531.0	3569.7	3543.0	3546.1	3509.7
45°	3332.6	3368.1	3341.7	3328.0	3307.6
47.5°	3134.8	3150.2	3128.4	3124.9	3096.1
50°	2925.3	2936.9	2920.4	2916.2	2883.9
52.5°	2708.9	2729.0	2707.8	2702.2	2680.8
55°	2497.4	2514.6	2497.7	2493.5	2475.2
57.5°	2284.5	2307.0	2289.8	2285.5	2270.8
60°	2071.6	2078.2	2074.0	2080.3	2066.0
62.5°	1860.1	1875.5	1880.4	1878.7	1867.4
65°	1650.3	1666.5	1666.8	1675.3	1671.0
67.5°	1435.6	1456.7	1462.7	1471.4	1475.3
70°	1233.6	1249.7	1267.3	1272.6	1268.7
72.5°	1030.1	1056.1	1075.9	1080.4	1096.9
75°	825.0	849.5	878.4	884.7	892.1
77.5°	634.6	667.2	693.2	701.7	710.8
80°	454.0	490.1	516.1	527.7	545.3
82.5°	297.9	334.8	361.2	372.8	394.2
85°	158.1	191.2	217.5	236.8	245.9
87.5°	46.7	74.8	89.9	95.5	103.7
90°	0.0	3.5	4.2	9.5	8.8
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)