

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: P730441

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-WG-UNV-L850
Description: 15000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15392.0 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

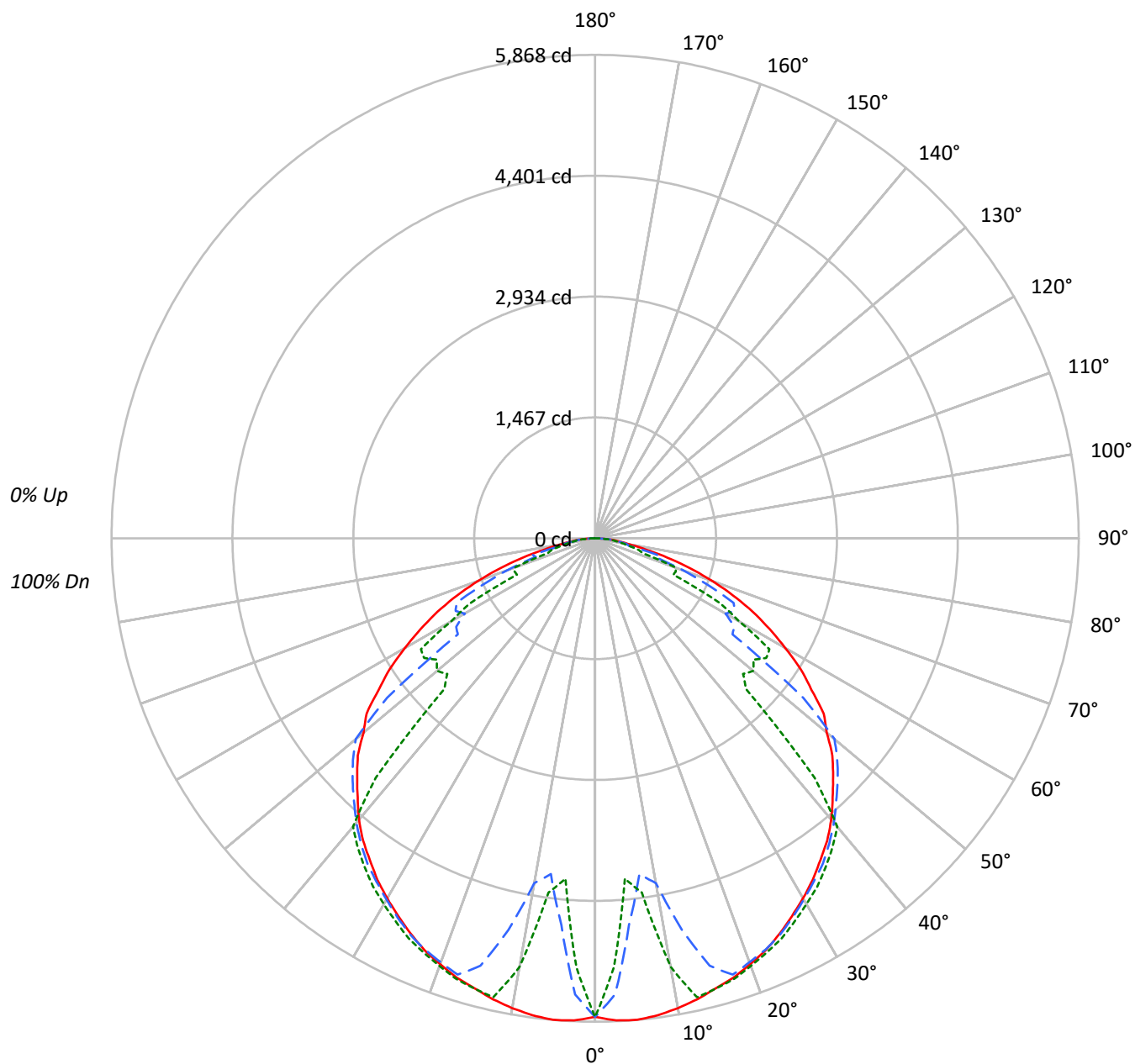
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9381	9381	9381
5°	9511	7641	6720
10°	9495	6968	8667
15°	9453	8981	9461
20°	9453	9410	9493
25°	9436	9457	9543
30°	9408	9440	9561
35°	9394	9498	9609
40°	9395	9497	9633
45°	9321	9504	5906
50°	9215	9523	6294
55°	9021	5726	7134
60°	8606	5902	6533
65°	8063	7087	3997
70°	7120	5369	4900
75°	5673	4880	3398
80°	3908	3527	2920
85°	3744	3255	3088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	3.0
10°-20°	1455.5	9.5
20°-30°	2394.6	15.6
30°-40°	3010.9	19.6
40°-50°	2953.0	19.2
50°-60°	2446.7	15.9
60°-70°	1725.7	11.2
70°-80°	752.9	4.9
80°-90°	188.1	1.2
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°	4314.7	28.0
0°-40°	7325.6	47.6
0°-60°	12725.3	82.7
0°-90°	15392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5810	5810	5810	5810	5810	
5°	5868	5462	4714	4275	4146	557
15°	5655	3927	5373	5677	5660	1599
25°	5297	4846	5308	5344	5357	2441
35°	4766	4763	4819	4850	4875	2986
45°	4082	4095	4162	3686	2586	3151
55°	3205	3310	2034	2313	2534	2867
65°	2111	2235	1855	1427	1046	2075
75°	909	891	782	511	545	975
85°	202	180	176	168	167	210
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5810.0	5810.0	5810.0	5810.0	5810.0
2.5°	5857.9	5736.3	5543.2	5300.0	5213.9
5°	5868.3	5461.9	4714.4	4274.6	4146.1
7.5°	5838.5	4963.8	4110.0	4202.4	4338.6
10°	5791.2	4526.1	4250.3	5000.6	5286.2
12.5°	5730.8	4137.1	4869.3	5648.8	5705.7
15°	5655.0	3927.3	5373.0	5677.3	5659.9
17.5°	5591.1	4050.2	5553.6	5620.3	5607.8
20°	5501.5	4295.5	5476.5	5530.0	5525.1
22.5°	5411.2	4585.8	5403.5	5441.8	5441.8
25°	5296.6	4846.4	5308.4	5343.8	5357.0
27.5°	5170.8	4996.4	5189.6	5218.7	5242.4
30°	5046.4	5018.0	5063.2	5100.7	5128.4
32.5°	4915.2	4904.1	4939.5	4979.1	5014.5
35°	4765.8	4763.0	4818.6	4850.5	4874.9
37.5°	4625.4	4615.8	4667.2	4711.6	4730.4
40°	4457.4	4457.4	4506.0	4551.1	4570.6
42.5°	4265.6	4292.7	4330.2	4376.7	3941.9
45°	4082.2	4094.7	4162.1	3686.2	2586.5
47.5°	3905.7	3921.7	3985.7	2369.7	2434.3
50°	3668.8	3741.1	3791.1	2362.8	2505.9
52.5°	3495.9	3527.1	3182.5	2339.2	2419.7
55°	3204.8	3309.6	2034.1	2312.8	2534.3
57.5°	2956.1	3032.5	2000.1	2369.7	2507.2
60°	2665.0	2781.7	1827.8	2286.4	2023.0
62.5°	2385.7	2496.8	1908.4	1799.4	1713.2
65°	2110.6	2234.9	1854.9	1427.0	1046.2
67.5°	1809.0	1693.1	1479.8	1005.3	1058.1
70°	1508.3	1182.4	1137.3	1124.1	1037.9
72.5°	1199.1	862.9	755.1	843.4	603.7
75°	909.4	891.4	782.3	511.3	544.7
77.5°	630.8	643.3	418.9	498.8	414.0
80°	420.3	364.1	379.3	318.2	314.0
82.5°	291.1	297.3	249.4	241.7	245.3
85°	202.1	179.9	175.7	168.2	166.7
87.5°	67.4	78.5	73.0	66.0	70.2
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)