

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: P730424

Luminaire Tested: **HBLED-LD5-15HE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730424
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-L735
Description: 15000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14393.0 lumens
Efficiency: N/A
Efficacy: 157.8 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

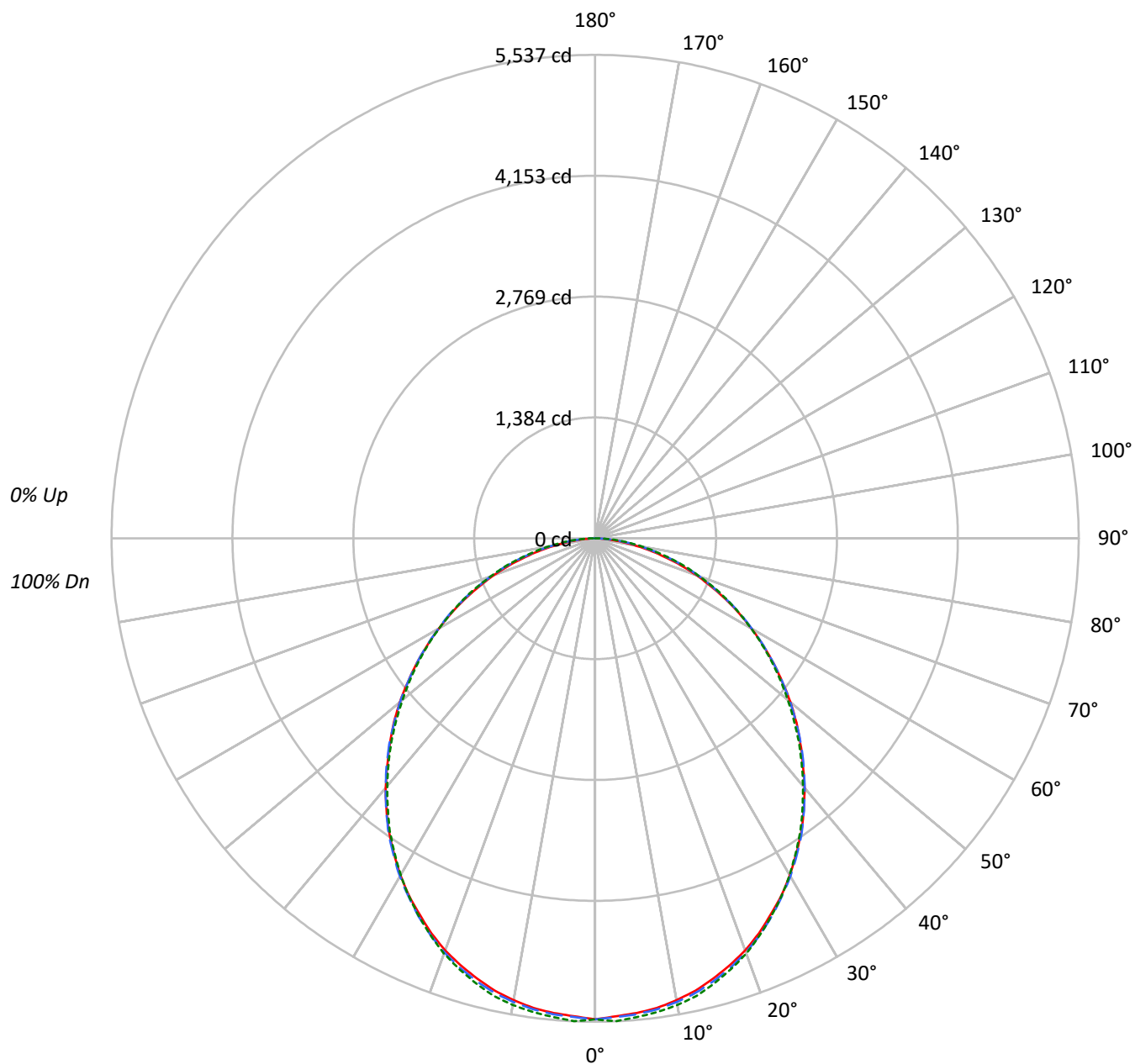
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8896	8896	8896
5°	8846	8871	8921
10°	8806	8841	8899
15°	8728	8776	8818
20°	8629	8671	8696
25°	8470	8518	8505
30°	8314	8336	8302
35°	8108	8128	8077
40°	7864	7864	7804
45°	7589	7610	7532
50°	7328	7316	7224
55°	7011	7012	6949
60°	6671	6679	6653
65°	6288	6351	6367
70°	5807	5967	5973
75°	5132	5465	5550
80°	4209	4786	5056
85°	2921	4018	4544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.1	3.6
10°-20°	1482.5	10.3
20°-30°	2203.0	15.3
30°-40°	2575.9	17.9
40°-50°	2568.3	17.8
50°-60°	2228.3	15.5
60°-70°	1645.9	11.4
70°-80°	921.5	6.4
80°-90°	245.9	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°	4206.6	29.2
0°-40°	6782.5	47.1
0°-60°	11579.1	80.4
0°-90°	14392.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	14393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5510	5510	5510	5510	5510	
5°	5458	5492	5473	5497	5504	518
15°	5222	5258	5250	5275	5276	1473
25°	4754	4792	4781	4792	4774	2192
35°	4113	4149	4124	4123	4098	2569
45°	3324	3359	3333	3319	3299	2566
55°	2491	2508	2491	2487	2469	2227
65°	1646	1662	1662	1671	1666	1628
75°	823	847	876	882	890	876
85°	158	191	217	236	245	191
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°	5510.0	5510.0	5510.0	5510.0	5510.0
2.5°	5479.9	5512.5	5489.7	5511.5	5536.7
5°	5457.8	5492.2	5473.2	5497.4	5504.4
7.5°	5425.6	5458.9	5440.7	5464.9	5472.2
10°	5370.9	5407.1	5392.7	5420.0	5427.7
12.5°	5307.2	5341.1	5331.7	5363.6	5368.8
15°	5221.7	5258.2	5250.0	5275.3	5275.6
17.5°	5127.1	5161.4	5155.4	5175.1	5174.3
20°	5022.3	5059.1	5046.5	5067.8	5061.2
22.5°	4898.3	4937.5	4921.7	4939.6	4922.8
25°	4754.2	4792.5	4781.2	4791.7	4774.2
27.5°	4614.8	4649.8	4626.7	4639.3	4620.7
30°	4459.2	4489.0	4471.1	4475.3	4452.9
32.5°	4284.3	4319.7	4298.0	4297.3	4273.5
35°	4113.4	4149.4	4123.9	4123.1	4097.6
37.5°	3924.1	3957.8	3927.6	3929.4	3899.6
40°	3731.1	3760.2	3731.1	3729.6	3702.4
42.5°	3521.5	3560.1	3533.5	3536.6	3500.2
45°	3323.6	3359.0	3332.7	3319.0	3298.7
47.5°	3126.3	3141.7	3120.0	3116.5	3087.8
50°	2917.4	2929.0	2912.5	2908.3	2876.1
52.5°	2701.6	2721.6	2700.5	2694.9	2673.6
55°	2490.6	2507.8	2491.0	2486.8	2468.6
57.5°	2278.3	2300.7	2283.6	2279.3	2264.7
60°	2066.0	2072.6	2068.4	2074.7	2060.4
62.5°	1855.0	1870.4	1875.4	1873.6	1862.4
65°	1645.8	1662.0	1662.3	1670.7	1666.5
67.5°	1431.7	1452.7	1458.8	1467.5	1471.3
70°	1230.2	1246.4	1263.9	1269.1	1265.3
72.5°	1027.4	1053.3	1072.9	1077.5	1093.9
75°	822.7	847.3	876.0	882.3	889.7
77.5°	632.8	665.4	691.3	699.8	708.9
80°	452.7	488.8	514.7	526.3	543.8
82.5°	297.1	333.9	360.2	371.8	393.2
85°	157.7	190.6	216.9	236.2	245.3
87.5°	46.6	74.6	89.7	95.3	103.4
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)