

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: P730425

Luminaire Tested: **HBLED-LD5-15HE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730425
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-L740
Description: 15000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14829.0 lumens
Efficiency: N/A
Efficacy: 162.6 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

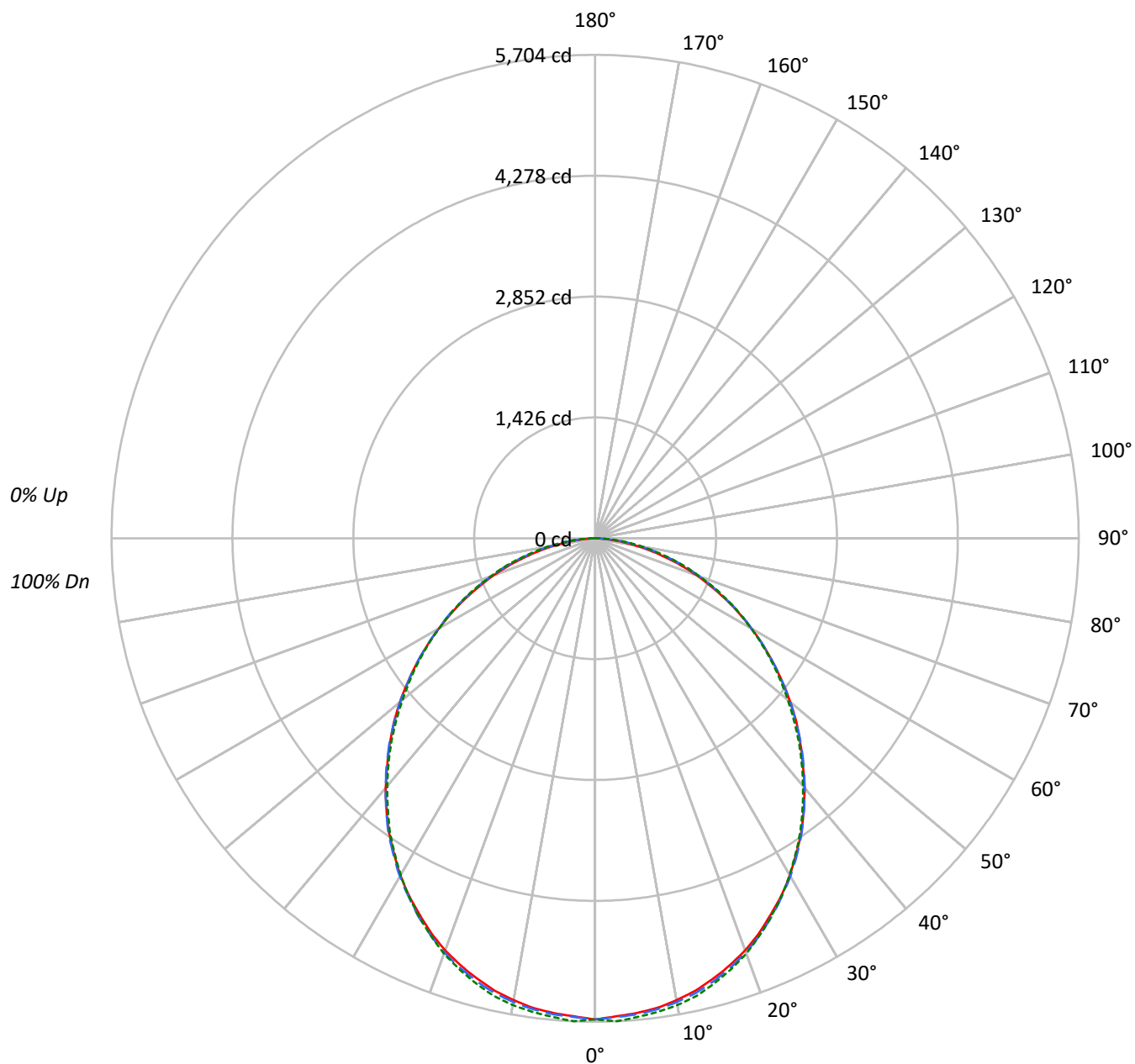
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9166	9166	9166
5°	9114	9139	9192
10°	9072	9109	9168
15°	8993	9042	9086
20°	8891	8934	8960
25°	8726	8776	8763
30°	8565	8588	8553
35°	8353	8375	8321
40°	8102	8102	8040
45°	7819	7840	7760
50°	7550	7537	7443
55°	7223	7224	7159
60°	6874	6882	6855
65°	6478	6543	6560
70°	5984	6147	6154
75°	5288	5631	5718
80°	4337	4931	5210
85°	3010	4140	4681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.9	3.6
10°-20°	1527.4	10.3
20°-30°	2269.8	15.3
30°-40°	2653.9	17.9
40°-50°	2646.0	17.8
50°-60°	2295.8	15.5
60°-70°	1695.7	11.4
70°-80°	949.4	6.4
80°-90°	253.3	1.7
90°-100°	0.8	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°	4334.0	29.2
0°-40°	6988.0	47.1
0°-60°	11929.8	80.4
0°-90°	14828.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	14829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5677	5677	5677	5677	5677	
5°	5623	5659	5639	5664	5671	534
15°	5380	5417	5409	5435	5436	1517
25°	4898	4938	4926	4937	4919	2258
35°	4238	4275	4249	4248	4222	2647
45°	3424	3461	3434	3420	3399	2643
55°	2566	2584	2566	2562	2543	2295
65°	1696	1712	1713	1721	1717	1677
75°	848	873	903	909	917	903
85°	162	196	224	243	253	197
90°	0	4	4	10	9	7
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°	5677.0	5677.0	5677.0	5677.0	5677.0
2.5°	5645.9	5679.5	5656.0	5678.4	5704.4
5°	5623.2	5658.6	5639.0	5663.9	5671.2
7.5°	5590.0	5624.3	5605.5	5630.4	5638.0
10°	5533.6	5570.9	5556.0	5584.2	5592.1
12.5°	5467.9	5502.9	5493.2	5526.0	5531.5
15°	5379.9	5417.4	5409.1	5435.1	5435.5
17.5°	5282.4	5317.7	5311.6	5331.9	5331.1
20°	5174.5	5212.3	5199.4	5221.4	5214.5
22.5°	5046.7	5087.1	5070.8	5089.2	5071.9
25°	4898.2	4937.6	4926.1	4936.9	4918.8
27.5°	4754.6	4790.7	4766.8	4779.8	4760.7
30°	4594.3	4624.9	4606.6	4610.9	4587.8
32.5°	4414.1	4450.6	4428.2	4427.5	4402.9
35°	4238.0	4275.1	4248.8	4248.0	4221.7
37.5°	4043.0	4077.7	4046.6	4048.4	4017.7
40°	3844.1	3874.1	3844.1	3842.6	3814.5
42.5°	3628.2	3667.9	3640.5	3643.7	3606.2
45°	3424.3	3460.7	3433.6	3419.5	3398.6
47.5°	3221.0	3236.9	3214.5	3210.9	3181.3
50°	3005.8	3017.7	3000.7	2996.4	2963.2
52.5°	2783.4	2804.0	2782.3	2776.6	2754.6
55°	2566.1	2583.8	2566.4	2562.1	2543.3
57.5°	2347.3	2370.4	2352.8	2348.4	2333.3
60°	2128.6	2135.4	2131.1	2137.6	2122.8
62.5°	1911.2	1927.1	1932.2	1930.4	1918.8
65°	1695.7	1712.3	1712.6	1721.3	1717.0
67.5°	1475.1	1496.7	1502.9	1511.9	1515.9
70°	1267.5	1284.1	1302.2	1307.6	1303.6
72.5°	1058.5	1085.2	1105.4	1110.1	1127.1
75°	847.7	872.9	902.6	909.0	916.6
77.5°	652.0	685.5	712.3	721.0	730.4
80°	466.4	503.6	530.3	542.2	560.3
82.5°	306.1	344.1	371.1	383.0	405.1
85°	162.5	196.4	223.5	243.3	252.7
87.5°	48.0	76.9	92.4	98.2	106.5
90°	0.0	3.6	4.3	9.7	9.0
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)