

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: P730428

Luminaire Tested: **HBLED-LD5-15HE-W-FLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730428
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-L840
Description: 15000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14155.0 lumens
Efficiency: N/A
Efficacy: 155.2 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

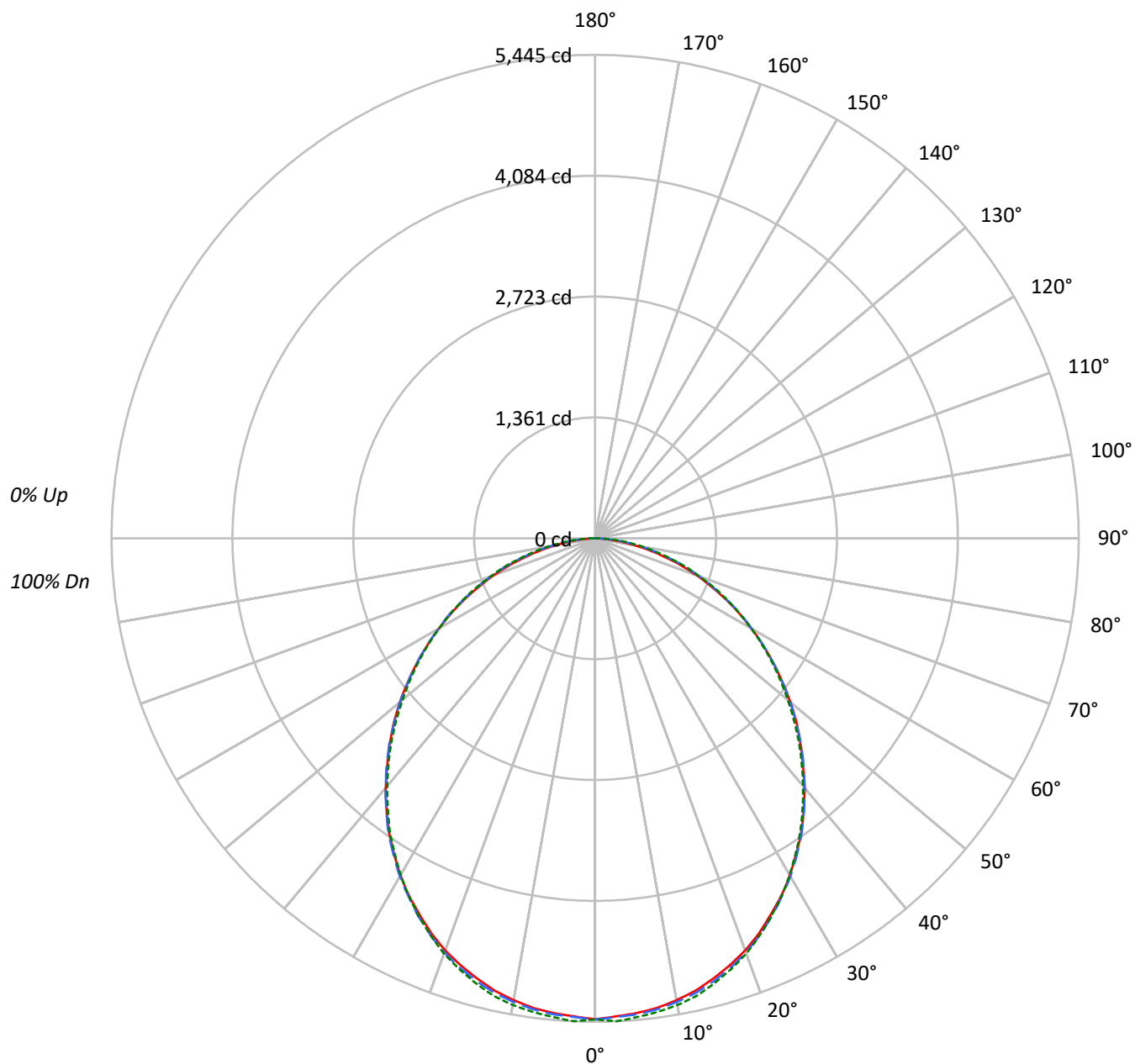
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8749	8749	8749
5°	8700	8724	8774
10°	8660	8695	8752
15°	8584	8631	8673
20°	8487	8528	8552
25°	8330	8377	8365
30°	8176	8198	8165
35°	7973	7994	7943
40°	7734	7734	7674
45°	7463	7484	7407
50°	7207	7195	7105
55°	6895	6896	6834
60°	6561	6569	6543
65°	6184	6246	6261
70°	5712	5868	5874
75°	5047	5374	5459
80°	4139	4707	4973
85°	2873	3951	4468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.5	3.6
10°-20°	1457.9	10.3
20°-30°	2166.6	15.3
30°-40°	2533.3	17.9
40°-50°	2525.8	17.8
50°-60°	2191.4	15.5
60°-70°	1618.6	11.4
70°-80°	906.3	6.4
80°-90°	241.8	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°	4137.0	29.2
0°-40°	6670.3	47.1
0°-60°	11387.6	80.4
0°-90°	14154.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	14155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5419	5419	5419	5419	5419	
5°	5368	5401	5383	5406	5413	510
15°	5135	5171	5163	5188	5188	1448
25°	4676	4713	4702	4712	4695	2156
35°	4045	4081	4056	4055	4030	2527
45°	3269	3303	3278	3264	3244	2523
55°	2450	2466	2450	2446	2428	2190
65°	1619	1634	1635	1643	1639	1601
75°	809	833	862	868	875	862
85°	155	188	213	232	241	188
90°	0	4	4	9	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°	5418.9	5418.9	5418.9	5418.9	5418.9
2.5°	5389.3	5421.4	5398.9	5420.3	5445.2
5°	5367.6	5401.4	5382.7	5406.5	5413.4
7.5°	5335.9	5368.7	5350.7	5374.5	5381.7
10°	5282.1	5317.6	5303.5	5330.4	5338.0
12.5°	5219.4	5252.8	5243.5	5274.9	5280.1
15°	5135.3	5171.2	5163.2	5188.1	5188.4
17.5°	5042.3	5076.0	5070.2	5089.5	5088.8
20°	4939.3	4975.4	4963.1	4984.0	4977.5
22.5°	4817.3	4855.9	4840.3	4857.9	4841.4
25°	4675.6	4713.2	4702.2	4712.5	4695.3
27.5°	4538.5	4572.9	4550.2	4562.6	4544.3
30°	4385.4	4414.7	4397.2	4401.3	4379.3
32.5°	4213.5	4248.3	4226.9	4226.3	4202.8
35°	4045.3	4080.8	4055.7	4055.0	4029.9
37.5°	3859.2	3892.3	3862.7	3864.4	3835.1
40°	3669.4	3698.0	3669.4	3668.0	3641.1
42.5°	3463.3	3501.2	3475.0	3478.1	3442.3
45°	3268.6	3303.4	3277.6	3264.1	3244.1
47.5°	3074.6	3089.8	3068.4	3064.9	3036.7
50°	2869.2	2880.6	2864.3	2860.2	2828.5
52.5°	2656.9	2676.6	2655.9	2650.4	2629.4
55°	2449.5	2466.3	2449.8	2445.7	2427.7
57.5°	2240.6	2262.7	2245.8	2241.6	2227.2
60°	2031.8	2038.3	2034.2	2040.4	2026.3
62.5°	1824.4	1839.5	1844.3	1842.6	1831.6
65°	1618.6	1634.5	1634.8	1643.1	1638.9
67.5°	1408.1	1428.7	1434.6	1443.2	1447.0
70°	1209.9	1225.8	1243.0	1248.1	1244.4
72.5°	1010.4	1035.9	1055.2	1059.7	1075.9
75°	809.1	833.2	861.5	867.7	875.0
77.5°	622.4	654.4	679.9	688.2	697.2
80°	445.2	480.7	506.2	517.6	534.8
82.5°	292.2	328.4	354.3	365.6	386.7
85°	155.1	187.5	213.3	232.3	241.2
87.5°	45.8	73.4	88.2	93.7	101.7
90°	0.0	3.5	4.1	9.3	8.6
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)