

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: P730386

Luminaire Tested: **HBLED-LD5-15HE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-CLI-UNV-L840
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14203.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

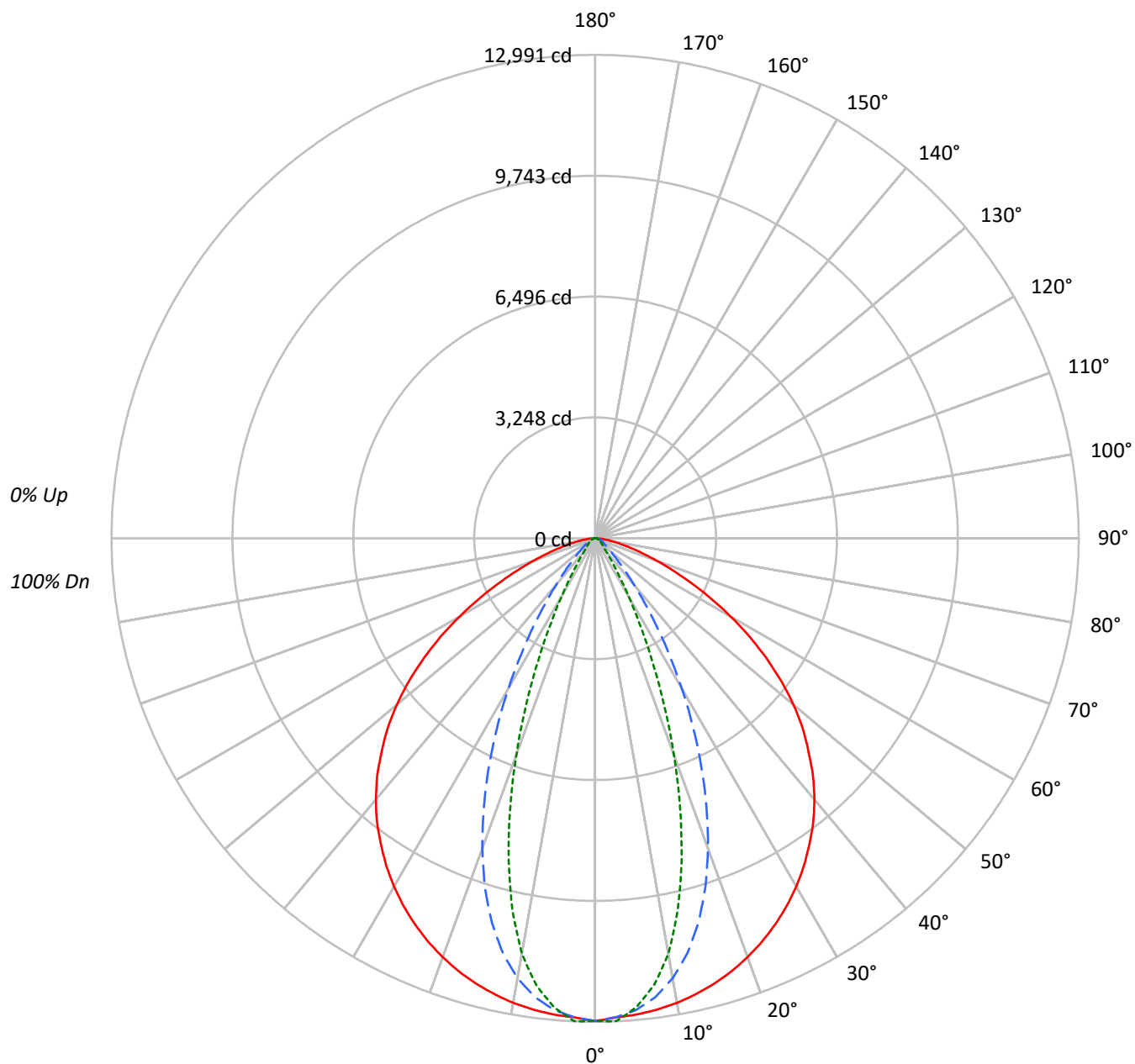
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20947	20947	20947
5°	20821	20614	20505
10°	20786	19680	18571
15°	20702	17889	14998
20°	20578	15222	10630
25°	20394	12003	6423
30°	20146	8663	3301
35°	19782	5663	1649
40°	19313	3402	962
45°	18511	2032	719
50°	17459	1329	604
55°	15801	1008	527
60°	13579	858	481
65°	10923	783	454
70°	8229	839	452
75°	6053	797	465
80°	4429	794	509
85°	3316	963	658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1194.8	8.4
10°-20°	2972.4	20.9
20°-30°	3292.3	23.2
30°-40°	2637.7	18.6
40°-50°	1883.0	13.3
50°-60°	1209.5	8.5
60°-70°	655.5	4.6
70°-80°	280.2	2.0
80°-90°	77.7	0.5
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°	7459.5	52.5
0°-40°	10097.2	71.1
0°-60°	13189.7	92.9
0°-90°	14203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12973	12973	12973	12973	12973	
5°	12846	12894	12718	12678	12652	###
15°	12385	11998	10702	9458	8973	3494
25°	11448	10094	6738	4390	3605	5274
35°	10036	7260	2873	1159	836	6275
45°	8107	4191	890	379	315	6249
55°	5613	1874	358	220	187	5003
65°	2859	769	205	142	119	2863
75°	970	282	128	89	74	1078
85°	179	74	52	43	36	219
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12973.4	12973.4	12973.4	12973.4	12973.4
2.5°	12888.0	12968.6	12881.8	12935.8	12991.1
5°	12846.3	12894.2	12718.5	12678.2	12651.6
7.5°	12773.9	12760.2	12430.2	12216.3	12113.1
10°	12678.2	12567.5	12003.8	11533.7	11327.3
12.5°	12541.5	12313.3	11426.4	10600.9	10251.1
15°	12385.1	11997.6	10702.1	9457.8	8972.6
17.5°	12197.8	11628.6	9836.3	8231.9	7591.6
20°	11976.4	11183.1	8859.2	6929.5	6186.7
22.5°	11729.1	10669.3	7813.0	5631.2	4834.5
25°	11447.6	10093.9	6737.5	4389.6	3605.2
27.5°	11143.5	9455.1	5668.1	3279.9	2564.4
30°	10805.9	8763.5	4646.5	2365.0	1770.5
32.5°	10437.6	8028.3	3697.5	1663.2	1210.8
35°	10036.5	7259.6	2873.3	1158.9	836.4
37.5°	9625.8	6475.1	2170.2	819.3	600.0
40°	9163.2	5693.3	1614.0	600.0	456.4
42.5°	8666.5	4926.7	1194.5	461.9	369.7
45°	8106.8	4190.7	889.7	378.6	315.0
47.5°	7564.3	3504.7	675.8	322.5	274.0
50°	6950.7	2885.7	528.9	281.5	240.5
52.5°	6299.5	2341.1	429.1	248.0	211.8
55°	5613.4	1873.6	358.0	220.0	187.2
57.5°	4918.5	1484.1	306.1	196.1	166.8
60°	4205.1	1186.9	265.8	175.6	148.9
62.5°	3508.8	949.1	232.3	157.8	133.3
65°	2859.0	769.4	205.0	141.5	118.9
67.5°	2258.3	608.2	191.3	127.1	107.3
70°	1743.1	473.5	177.7	113.4	95.7
72.5°	1320.8	363.6	157.2	101.1	84.7
75°	970.3	281.5	127.8	88.8	74.5
77.5°	694.3	216.6	103.9	77.2	64.3
80°	476.3	161.3	85.4	66.3	54.7
82.5°	309.6	114.1	69.0	54.7	45.1
85°	179.0	74.5	52.0	43.1	35.5
87.5°	77.2	41.0	35.5	32.1	27.3
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)