

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: P730389

Luminaire Tested: **HBLED-LD5-15HE-N-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-UNV-L740
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16081.0 lumens
Efficiency: N/A
Efficacy: 176.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

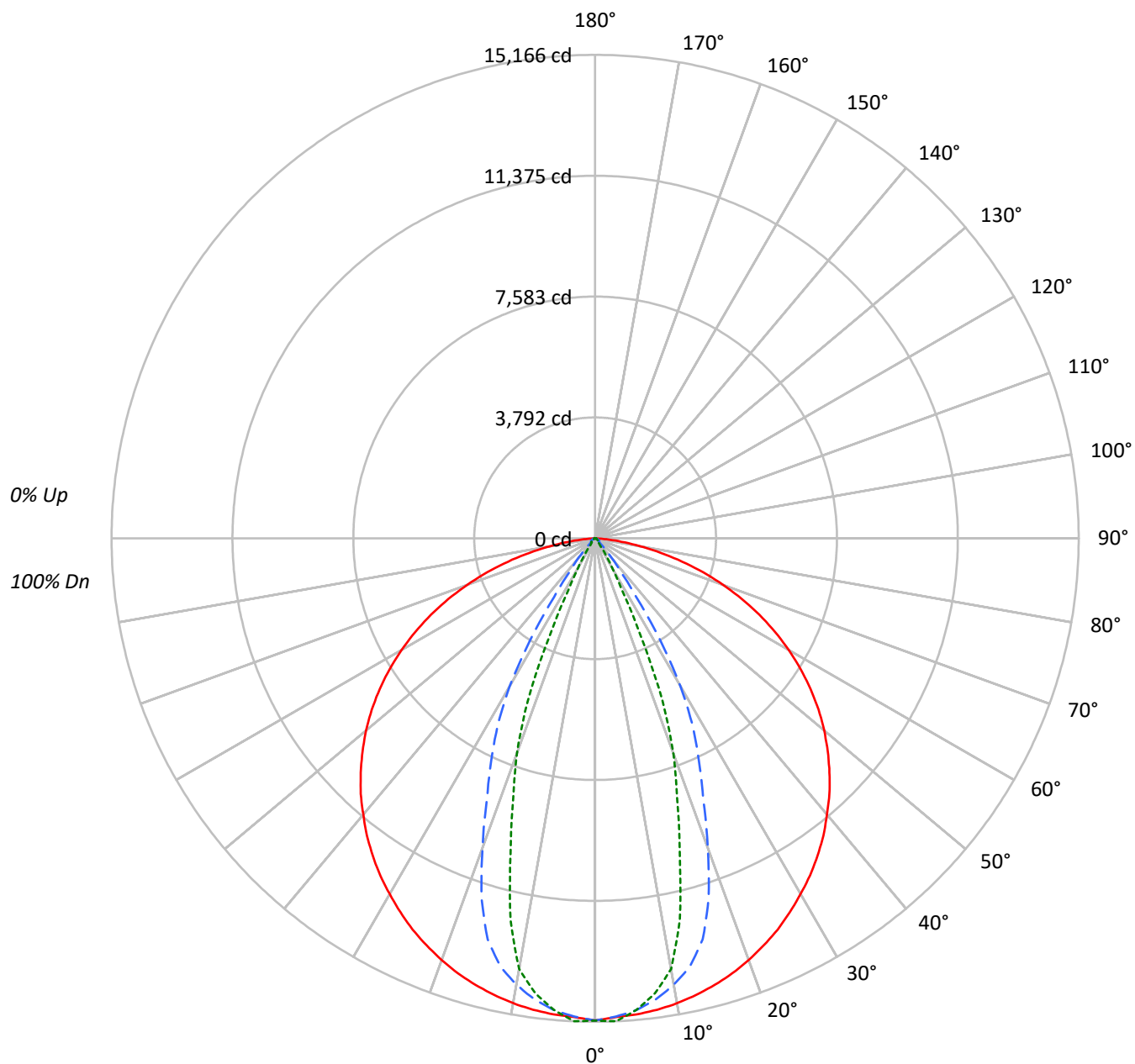
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24428	24428	24428
5°	24298	24083	24072
10°	24282	23311	22494
15°	24248	21778	17119
20°	24192	17754	12322
25°	24130	13728	6070
30°	24023	9977	1969
35°	23967	4426	507
40°	23841	1798	341
45°	23735	505	363
50°	23550	358	403
55°	23210	425	172
60°	22637	474	105
65°	21706	302	124
70°	20166	269	153
75°	17641	202	211
80°	13190	247	301
85°	6534	319	400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1404.1	8.7
10°-20°	3510.9	21.8
20°-30°	3802.8	23.6
30°-40°	2816.1	17.5
40°-50°	2028.4	12.6
50°-60°	1255.9	7.8
60°-70°	772.4	4.8
70°-80°	407.2	2.5
80°-90°	83.3	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°	8717.7	54.2
0°-40°	11533.8	71.7
0°-60°	14818.1	92.1
0°-90°	16081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15130	15130	15130	15130	15130	
5°	14992	15047	14859	14870	14853	###
15°	14506	14170	13029	11080	10241	4095
25°	13545	12407	7706	4848	3407	6241
35°	12159	8572	2246	528	257	7607
45°	10394	4830	221	160	159	8016
55°	8245	995	151	137	61	7361
65°	5682	105	79	50	32	5606
75°	2828	24	32	42	34	2987
85°	353	9	17	26	22	533
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15129.7	15129.7	15129.7	15129.7	15129.7
2.5°	15032.6	15128.3	15015.3	15099.5	15166.4
5°	14991.5	15047.0	14859.1	14869.9	14852.6
7.5°	14919.6	14906.6	14590.7	14452.5	14392.0
10°	14810.9	14725.2	14218.6	13929.9	13719.8
12.5°	14670.6	14479.1	13754.3	12836.6	12266.6
15°	14506.4	14169.6	13028.8	11079.8	10241.2
17.5°	14310.7	13833.5	11842.7	9286.1	8537.6
20°	14079.6	13458.5	10332.6	7900.6	7171.6
22.5°	13821.9	13002.2	8865.8	6566.2	5526.2
25°	13544.9	12407.0	7705.6	4847.5	3407.3
27.5°	13224.6	11641.9	6617.3	2855.2	1738.9
30°	12885.6	10720.6	5351.3	1535.9	1055.9
32.5°	12543.7	9676.2	3786.6	959.4	598.8
35°	12159.4	8572.1	2245.6	528.3	257.0
37.5°	11758.4	7560.2	1327.2	240.4	164.8
40°	11311.5	6635.3	852.9	159.8	161.9
42.5°	10879.7	5773.1	480.1	157.6	160.5
45°	10394.5	4829.5	221.0	159.8	159.1
47.5°	9892.9	3851.3	143.2	161.2	161.2
50°	9375.4	2753.8	142.5	164.8	160.5
52.5°	8829.1	1718.1	148.3	164.1	131.7
55°	8245.4	994.7	151.1	136.7	61.2
57.5°	7640.8	586.6	152.6	78.5	34.6
60°	7010.3	324.6	146.8	58.3	32.4
62.5°	6360.4	154.7	115.9	54.7	31.6
65°	5681.6	105.1	79.1	50.4	32.4
67.5°	4977.0	81.3	62.6	47.5	33.1
70°	4271.7	60.4	56.9	47.5	32.4
72.5°	3554.8	41.0	47.5	48.2	32.4
75°	2827.8	24.5	32.4	42.5	33.8
77.5°	2107.4	15.1	25.2	43.9	41.0
80°	1418.6	12.9	26.6	41.0	32.4
82.5°	832.8	11.5	25.9	31.6	25.9
85°	352.7	9.4	17.2	25.9	21.6
87.5°	66.2	7.9	13.7	20.9	18.7
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)