

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: P730390

Luminaire Tested: **HBLED-LD5-15HE-N-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730390
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-L750
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16468.0 lumens
Efficiency: N/A
Efficacy: 180.6 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

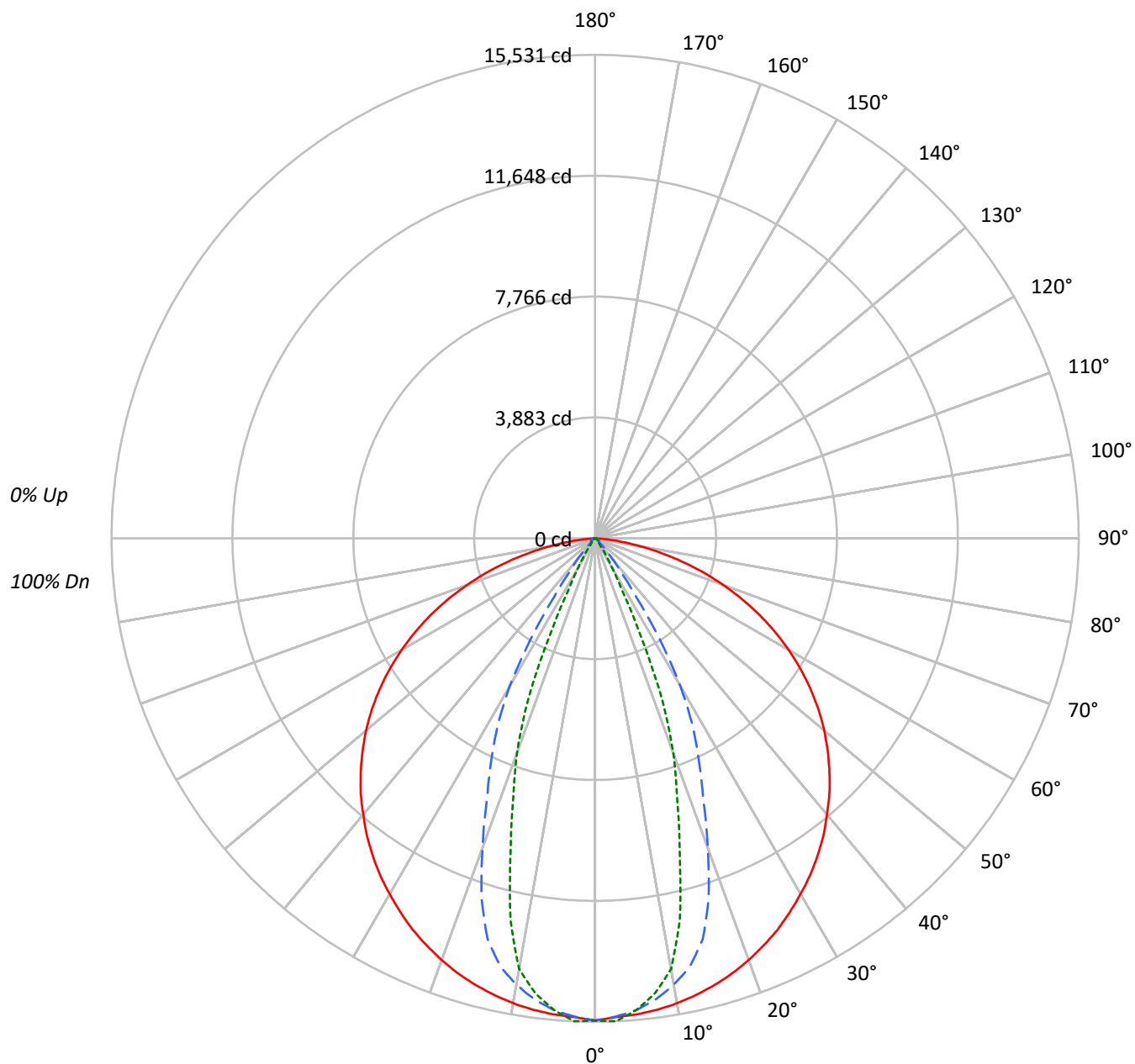
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	25016	25016	25016
5°	24882	24663	24652
10°	24867	23872	23035
15°	24832	22302	17531
20°	24774	18181	12619
25°	24711	14058	6216
30°	24602	10217	2016
35°	24543	4533	519
40°	24415	1841	349
45°	24306	517	372
50°	24116	366	413
55°	23769	436	176
60°	23182	486	107
65°	22229	310	127
70°	20651	275	157
75°	18065	207	216
80°	13507	254	309
85°	6691	328	409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1437.9	8.7
10°-20°	3595.3	21.8
20°-30°	3894.3	23.6
30°-40°	2883.9	17.5
40°-50°	2077.2	12.6
50°-60°	1286.2	7.8
60°-70°	791.0	4.8
70°-80°	417.0	2.5
80°-90°	85.4	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°	8927.5	54.2
0°-40°	11811.4	71.7
0°-60°	15174.7	92.1
0°-90°	16468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15494	15494	15494	15494	15494	
5°	15352	15409	15217	15228	15210	###
15°	14856	14511	13342	11346	10488	4194
25°	13871	12706	7891	4964	3489	6391
35°	12452	8778	2300	541	263	7790
45°	10645	4946	226	164	163	8209
55°	8444	1019	155	140	63	7538
65°	5818	108	81	52	33	5741
75°	2896	25	33	44	35	3059
85°	361	10	18	27	22	546
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15493.8	15493.8	15493.8	15493.8	15493.8
2.5°	15394.3	15492.4	15376.7	15462.9	15531.4
5°	15352.3	15409.1	15216.7	15227.7	15210.1
7.5°	15278.6	15265.4	14941.8	14800.3	14738.4
10°	15167.4	15079.6	14560.8	14265.2	14049.9
12.5°	15023.6	14827.6	14085.3	13145.6	12561.8
15°	14855.5	14510.6	13342.4	11346.4	10487.7
17.5°	14655.1	14166.4	12127.7	9509.6	8743.1
20°	14418.4	13782.4	10581.3	8090.8	7344.2
22.5°	14154.6	13315.1	9079.2	6724.2	5659.2
25°	13870.8	12705.6	7891.0	4964.1	3489.3
27.5°	13542.8	11922.0	6776.6	2924.0	1780.8
30°	13195.7	10978.6	5480.1	1572.9	1081.3
32.5°	12845.6	9909.1	3877.7	982.5	613.2
35°	12452.0	8778.4	2299.6	541.0	263.2
37.5°	12041.4	7742.1	1359.1	246.2	168.8
40°	11583.7	6795.0	873.4	163.6	165.8
42.5°	11141.5	5912.0	491.6	161.4	164.4
45°	10644.7	4945.7	226.3	163.6	162.9
47.5°	10130.9	3944.0	146.6	165.1	165.1
50°	9601.0	2820.0	145.9	168.8	164.4
52.5°	9041.6	1759.4	151.8	168.1	134.9
55°	8443.8	1018.6	154.8	140.0	62.7
57.5°	7824.7	600.7	156.3	80.3	35.4
60°	7179.0	332.4	150.4	59.7	33.2
62.5°	6513.4	158.5	118.7	56.1	32.4
65°	5818.4	107.6	81.1	51.6	33.2
67.5°	5096.8	83.3	64.1	48.6	33.9
70°	4374.5	61.9	58.3	48.6	33.2
72.5°	3640.4	42.0	48.6	49.4	33.2
75°	2895.9	25.1	33.2	43.5	34.6
77.5°	2158.1	15.5	25.8	44.9	42.0
80°	1452.7	13.2	27.3	42.0	33.2
82.5°	852.8	11.8	26.6	32.4	26.6
85°	361.2	9.6	17.7	26.6	22.1
87.5°	67.8	8.1	14.0	21.4	19.2
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)