

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: P730460

Luminaire Tested: **HBLED-LD5-15SE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730460
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-LD5-15SE-N-UNV-L735
Description: 15000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15430.0 lumens
Efficiency: N/A
Efficacy: 164.1 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

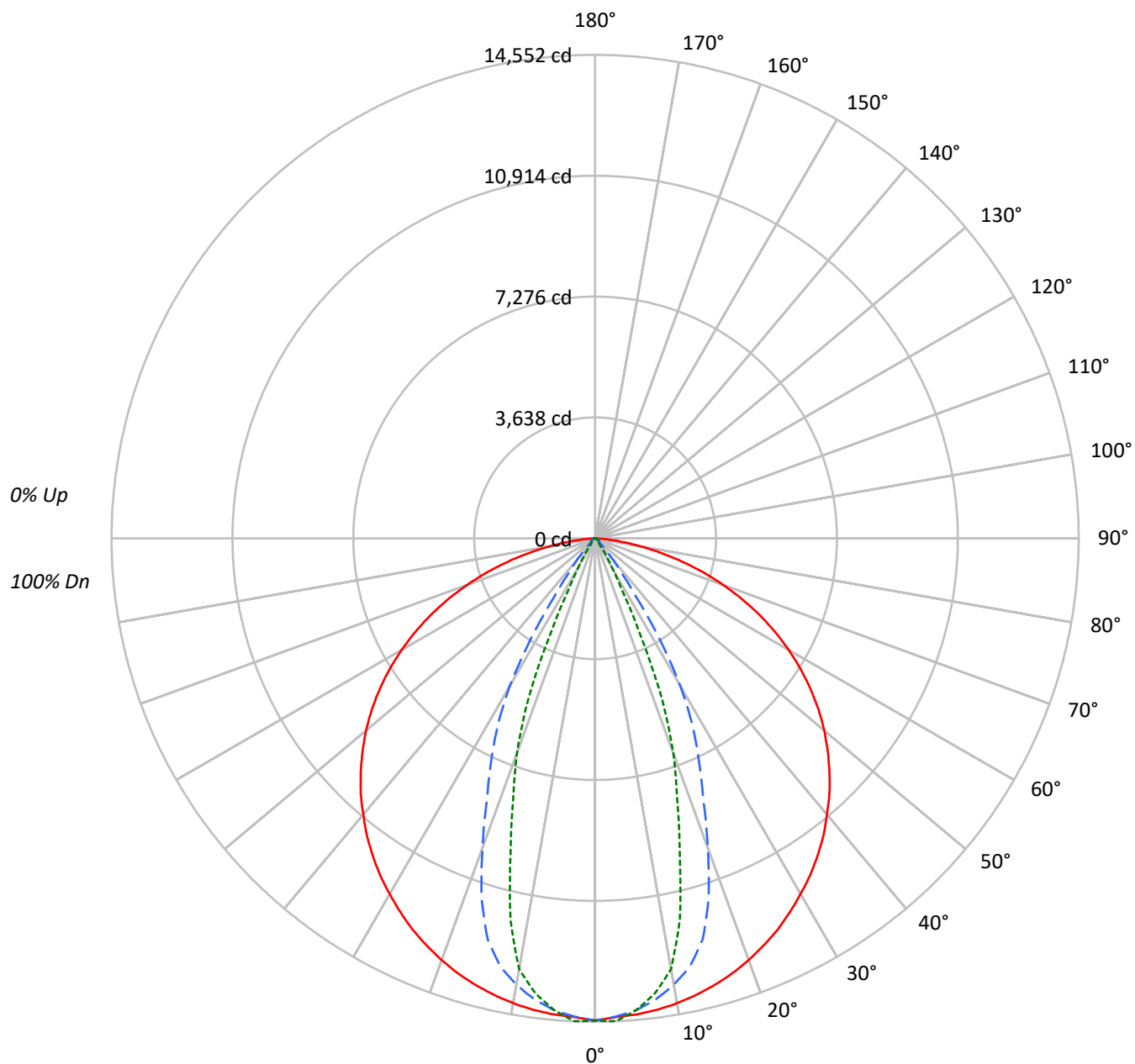
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	23439	23439	23439
5°	23314	23108	23098
10°	23299	22368	21583
15°	23267	20897	16426
20°	23212	17035	11823
25°	23153	13172	5824
30°	23051	9573	1889
35°	22996	4247	486
40°	22876	1725	328
45°	22774	484	348
50°	22596	343	387
55°	22271	408	165
60°	21721	455	100
65°	20828	290	119
70°	19349	258	147
75°	16927	194	202
80°	12656	238	289
85°	6269	306	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1347.2	8.7
10°-20°	3368.7	21.8
20°-30°	3648.8	23.6
30°-40°	2702.1	17.5
40°-50°	1946.2	12.6
50°-60°	1205.1	7.8
60°-70°	741.1	4.8
70°-80°	390.7	2.5
80°-90°	80.0	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°	8364.8	54.2
0°-40°	11066.9	71.7
0°-60°	14218.2	92.1
0°-90°	15430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14517	14517	14517	14517	14517	
5°	14385	14438	14258	14268	14251	###
15°	13919	13596	12501	10631	9827	3929
25°	12996	11905	7394	4651	3269	5988
35°	11667	8225	2155	507	247	7299
45°	9974	4634	212	153	153	7692
55°	7912	954	145	131	59	7063
65°	5452	101	76	48	31	5379
75°	2713	24	31	41	32	2866
85°	338	9	16	25	21	511
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14517.2	14517.2	14517.2	14517.2	14517.2
2.5°	14424.0	14515.9	14407.5	14488.3	14552.5
5°	14384.6	14437.8	14257.6	14267.9	14251.4
7.5°	14315.6	14303.2	14000.0	13867.4	13809.4
10°	14211.3	14129.1	13643.0	13366.0	13164.4
12.5°	14076.7	13893.0	13197.5	12317.0	11770.0
15°	13919.2	13596.0	12501.4	10631.2	9826.6
17.5°	13731.3	13273.5	11363.2	8910.2	8192.0
20°	13509.6	12913.6	9914.3	7580.8	6881.2
22.5°	13262.4	12475.8	8506.9	6300.4	5302.5
25°	12996.5	11904.7	7393.6	4651.2	3269.3
27.5°	12689.2	11170.6	6349.4	2739.7	1668.5
30°	12364.0	10286.6	5134.6	1473.7	1013.1
32.5°	12035.9	9284.5	3633.3	920.6	574.6
35°	11667.1	8225.1	2154.7	506.9	246.6
37.5°	11282.4	7254.1	1273.5	230.7	158.2
40°	10853.6	6366.7	818.3	153.3	155.4
42.5°	10439.2	5539.4	460.7	151.2	154.0
45°	9973.7	4633.9	212.0	153.3	152.6
47.5°	9492.4	3695.4	137.4	154.7	154.7
50°	8995.9	2642.3	136.7	158.2	154.0
52.5°	8471.7	1648.5	142.3	157.5	126.4
55°	7911.6	954.4	145.0	131.2	58.7
57.5°	7331.5	562.8	146.4	75.3	33.2
60°	6726.5	311.4	140.9	55.9	31.1
62.5°	6102.9	148.5	111.2	52.5	30.4
65°	5451.6	100.8	75.9	48.3	31.1
67.5°	4775.5	78.0	60.1	45.6	31.8
70°	4098.7	58.0	54.6	45.6	31.1
72.5°	3410.9	39.4	45.6	46.2	31.1
75°	2713.4	23.5	31.1	40.8	32.4
77.5°	2022.1	14.5	24.2	42.1	39.4
80°	1361.2	12.4	25.6	39.4	31.1
82.5°	799.1	11.1	24.9	30.4	24.9
85°	338.4	9.0	16.5	24.9	20.7
87.5°	63.5	7.6	13.1	20.0	18.0
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)