

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: P730506

Luminaire Tested: **HBLED-LD5-15SE-W-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-UNV-L840
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15758.0 lumens
Efficiency: N/A
Efficacy: 167.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

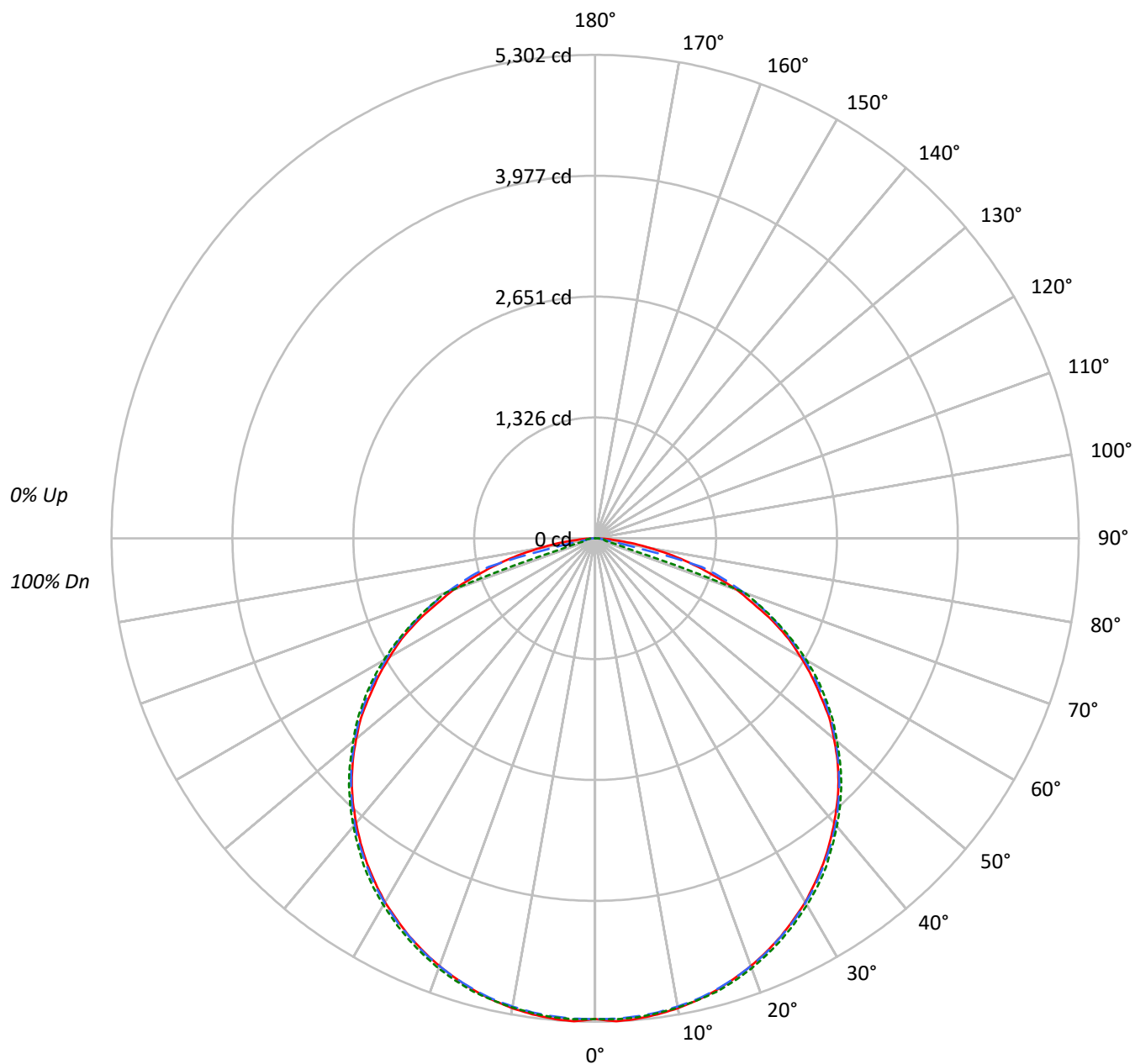
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8514	8514	8514
5°	8575	8531	8546
10°	8580	8549	8566
15°	8579	8567	8606
20°	8578	8580	8624
25°	8582	8586	8638
30°	8591	8602	8659
35°	8590	8618	8689
40°	8591	8646	8693
45°	8615	8647	8717
50°	8589	8639	8695
55°	8495	8614	8706
60°	8398	8535	8641
65°	8212	8383	8446
70°	7797	8130	8229
75°	6954	7540	909
80°	5592	939	994
85°	3722	1219	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.8	3.2
10°-20°	1447.1	9.2
20°-30°	2223.4	14.1
30°-40°	2737.1	17.4
40°-50°	2918.1	18.5
50°-60°	2727.8	17.3
60°-70°	2159.4	13.7
70°-80°	918.7	5.8
80°-90°	125.5	0.8
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°	4171.4	26.5
0°-40°	6908.6	43.8
0°-60°	12554.4	79.7
0°-90°	15758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5273	5273	5273	5273	5273	
5°	5291	5267	5264	5242	5273	503
15°	5132	5123	5125	5111	5149	1449
25°	4817	4811	4820	4817	4849	2221
35°	4358	4351	4372	4387	4408	2727
45°	3773	3752	3787	3802	3818	2907
55°	3018	3027	3060	3071	3093	2702
65°	2150	2168	2194	2211	2211	2115
75°	1115	1163	1209	197	146	1179
85°	201	60	66	68	67	262
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5273.1	5273.1	5273.1	5273.1	5273.1
2.5°	5302.4	5277.8	5273.1	5251.9	5280.1
5°	5290.7	5267.2	5263.7	5242.5	5273.1
7.5°	5266.0	5247.2	5244.9	5222.6	5253.1
10°	5233.1	5215.5	5214.3	5194.4	5224.9
12.5°	5188.5	5173.2	5177.9	5158.0	5188.5
15°	5132.1	5122.7	5125.1	5111.0	5148.6
17.5°	5064.0	5059.3	5064.0	5053.4	5087.5
20°	4992.3	4986.5	4993.5	4987.6	5019.3
22.5°	4908.9	4901.9	4916.0	4907.8	4937.1
25°	4817.3	4811.4	4819.7	4817.3	4849.0
27.5°	4712.8	4706.9	4724.5	4725.7	4750.4
30°	4608.2	4600.0	4614.1	4620.0	4644.6
32.5°	4483.7	4481.4	4502.5	4507.2	4533.0
35°	4358.0	4351.0	4372.1	4387.4	4408.5
37.5°	4220.6	4219.4	4241.7	4254.6	4265.2
40°	4076.1	4070.2	4101.9	4114.9	4124.3
42.5°	3929.3	3916.3	3946.9	3963.3	3973.9
45°	3773.0	3751.9	3787.1	3802.4	3817.7
47.5°	3601.5	3582.7	3616.8	3633.2	3643.8
50°	3419.5	3401.8	3439.4	3453.5	3461.7
52.5°	3236.2	3218.6	3258.5	3270.3	3290.2
55°	3017.7	3027.1	3060.0	3070.6	3092.9
57.5°	2815.7	2823.9	2855.6	2868.5	2894.4
60°	2600.7	2613.6	2643.0	2655.9	2675.9
62.5°	2392.8	2394.0	2429.2	2435.1	2450.4
65°	2149.6	2168.4	2194.3	2210.7	2210.7
67.5°	1878.3	1924.1	1968.7	1965.2	1974.6
70°	1651.6	1669.2	1722.1	1730.3	1743.2
72.5°	1367.3	1413.1	1471.9	1099.5	373.5
75°	1114.8	1162.9	1208.7	197.3	145.7
77.5°	865.7	903.3	401.7	112.8	110.4
80°	601.4	661.3	101.0	103.4	106.9
82.5°	395.9	323.0	83.4	91.6	92.8
85°	200.9	59.9	65.8	68.1	67.0
87.5°	65.8	36.4	37.6	38.8	39.9
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)