

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: P730638

Luminaire Tested: **HBLED-LD5-18SE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CLI-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17403.0 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

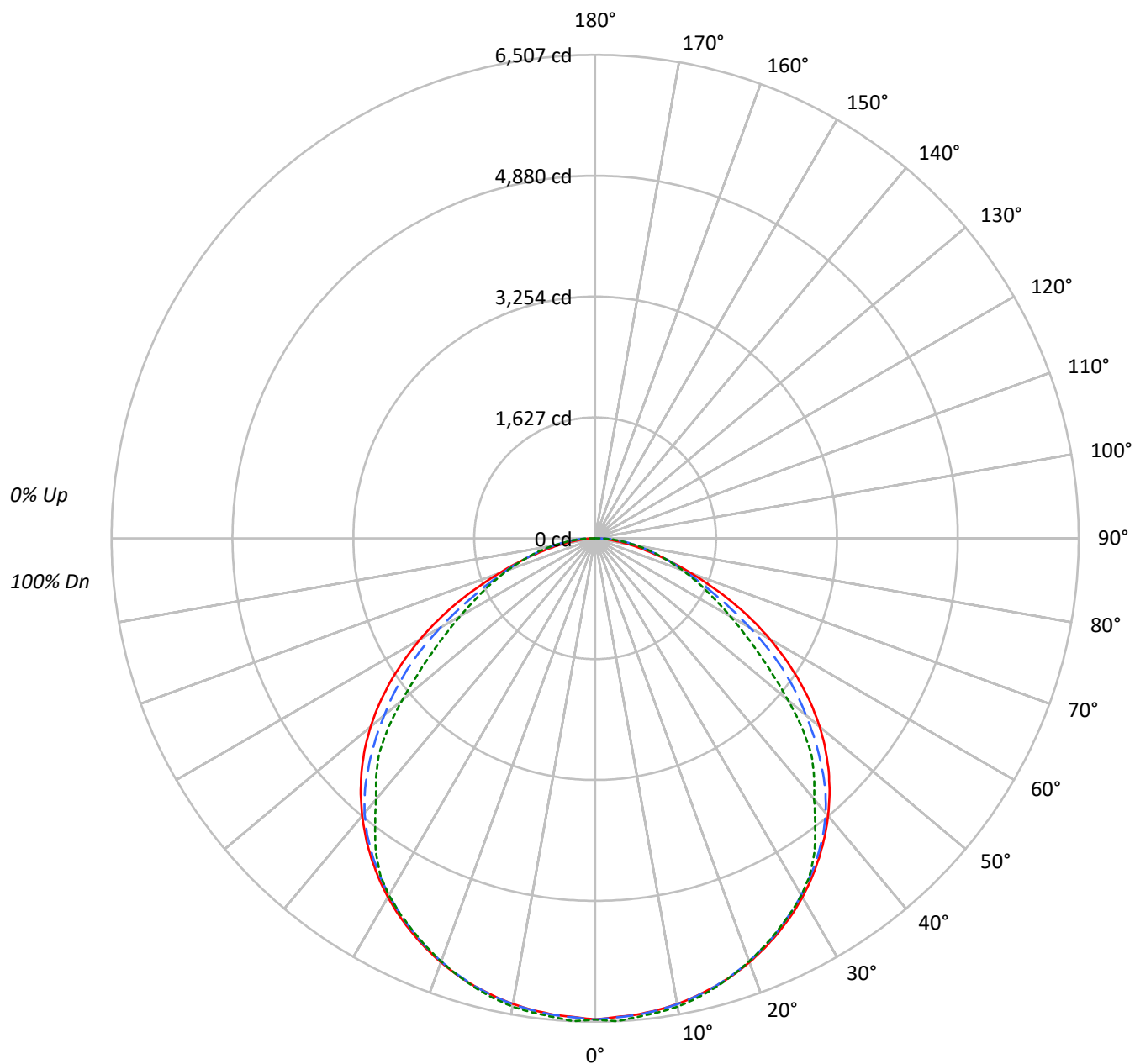
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10458	10458	10458
5°	10430	10438	10485
10°	10436	10441	10496
15°	10437	10436	10461
20°	10435	10411	10414
25°	10419	10380	10368
30°	10402	10340	10346
35°	10353	10289	10143
40°	10280	10175	9662
45°	10149	9824	9394
50°	9905	9301	8508
55°	9454	8699	7524
60°	8774	7762	6785
65°	7798	6720	6239
70°	6472	6006	5881
75°	5235	5496	5565
80°	4157	5257	5235
85°	3255	5647	5387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	3.5
10°-20°	1767.0	10.2
20°-30°	2694.3	15.5
30°-40°	3259.7	18.7
40°-50°	3301.8	19.0
50°-60°	2729.0	15.7
60°-70°	1802.4	10.4
70°-80°	939.9	5.4
80°-90°	294.6	1.7
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°	5075.5	29.2
0°-40°	8335.2	47.9
0°-60°	14366.0	82.5
0°-90°	17403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6478	6478	6478	6478	6478	
5°	6436	6474	6440	6468	6469	612
15°	6244	6276	6244	6263	6258	1763
25°	5848	5872	5827	5841	5820	2697
35°	5253	5260	5220	5213	5146	3286
45°	4445	4433	4302	4169	4114	3423
55°	3358	3309	3090	2790	2673	2993
65°	2041	1982	1759	1645	1633	2016
75°	839	854	881	893	892	914
85°	176	226	305	302	291	213
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6477.5	6477.5	6477.5	6477.5	6477.5
2.5°	6450.3	6488.4	6456.5	6484.5	6507.0
5°	6435.5	6474.4	6440.2	6468.2	6469.0
7.5°	6406.8	6445.6	6410.6	6438.6	6437.8
10°	6365.5	6402.1	6368.6	6402.1	6402.1
12.5°	6309.6	6345.3	6312.7	6343.7	6339.0
15°	6244.2	6276.1	6243.5	6262.9	6258.2
17.5°	6167.2	6196.0	6159.4	6175.7	6166.5
20°	6073.1	6099.6	6059.2	6080.2	6060.7
22.5°	5967.3	5992.2	5951.0	5966.6	5944.8
25°	5848.4	5871.8	5826.7	5841.4	5819.6
27.5°	5720.1	5741.1	5690.5	5708.5	5691.3
30°	5579.3	5589.5	5545.9	5569.3	5549.1
32.5°	5422.3	5428.5	5390.4	5411.4	5377.2
35°	5252.7	5259.8	5220.1	5213.1	5146.2
37.5°	5071.6	5074.7	5037.4	4974.3	4863.9
40°	4877.2	4875.6	4827.4	4682.0	4584.0
42.5°	4669.5	4668.8	4584.0	4418.4	4362.4
45°	4444.8	4433.2	4302.5	4168.8	4114.3
47.5°	4203.8	4191.3	4008.6	3902.1	3778.4
50°	3943.3	3921.5	3703.0	3557.5	3387.3
52.5°	3662.5	3629.1	3406.7	3171.9	3010.9
55°	3358.5	3308.7	3090.3	2790.1	2672.7
57.5°	3042.0	2968.1	2755.8	2463.5	2367.8
60°	2717.0	2634.5	2403.6	2163.3	2101.1
62.5°	2382.6	2301.0	2065.3	1884.2	1849.9
65°	2041.2	1982.1	1758.9	1644.6	1633.0
67.5°	1691.3	1670.3	1500.0	1441.7	1437.0
70°	1370.9	1367.0	1272.2	1242.6	1245.7
72.5°	1095.7	1091.0	1077.0	1062.2	1063.0
75°	839.1	853.8	881.0	892.7	892.0
77.5°	626.0	656.3	713.8	737.2	733.3
80°	447.1	492.2	565.4	587.1	563.0
82.5°	297.8	345.3	431.5	434.7	415.2
85°	175.7	226.3	304.8	302.5	290.8
87.5°	87.1	136.1	182.7	174.9	167.2
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)