

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: P730476

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-AI-UNV-L840
Description: 15000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13899.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

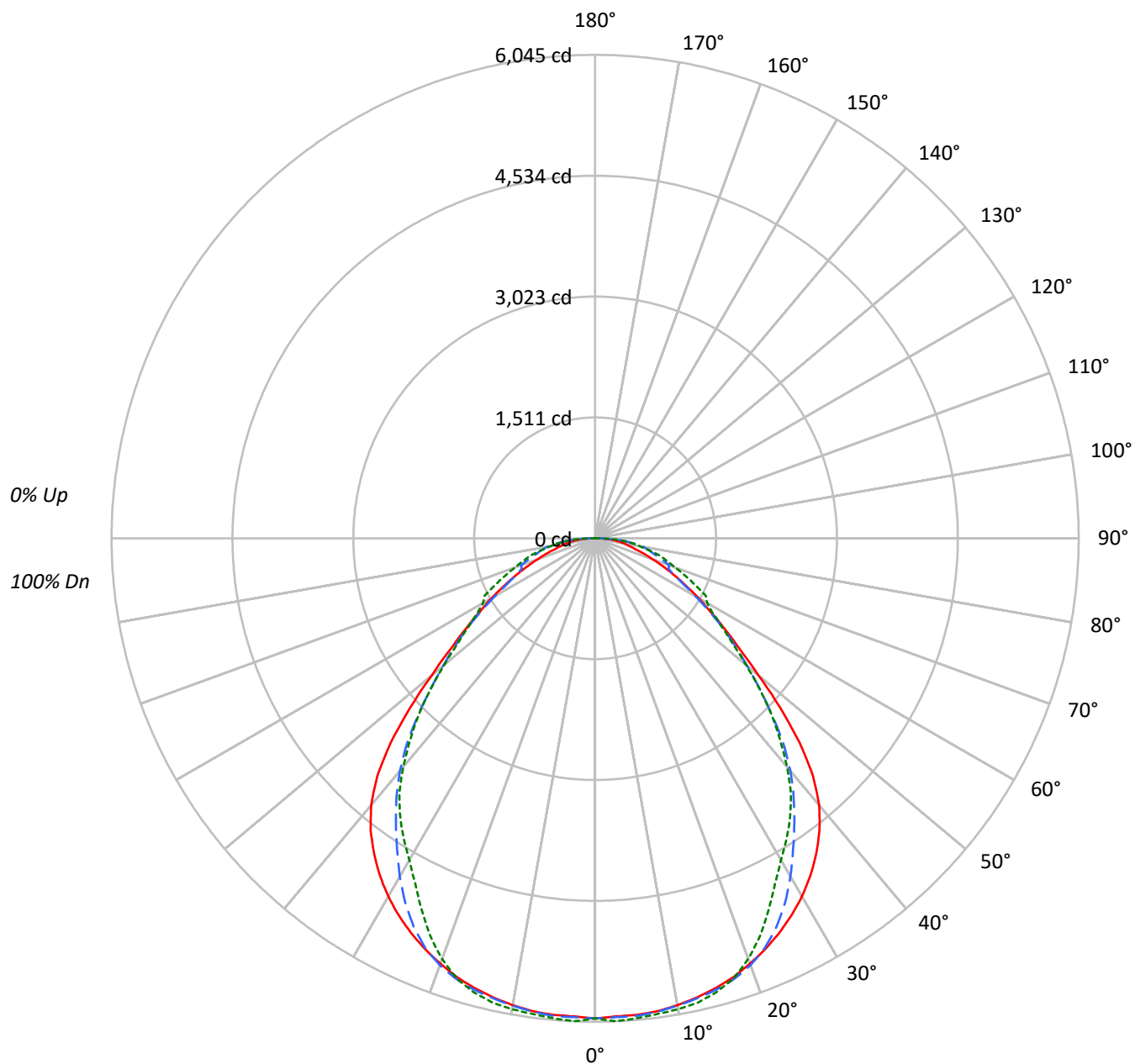
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9695	9695	9695
5°	9695	9716	9763
10°	9719	9731	9803
15°	9734	9770	9818
20°	9724	9760	9615
25°	9699	9554	9139
30°	9642	9103	8660
35°	9497	8556	8378
40°	9179	8000	7868
45°	8251	7144	7117
50°	6692	6222	6179
55°	5556	5453	5451
60°	4811	4670	5221
65°	4170	4143	5263
70°	3595	4648	5017
75°	3224	4764	5230
80°	3351	5608	5247
85°	3803	6463	5997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.7	4.1
10°-20°	1651.2	11.9
20°-30°	2452.4	17.6
30°-40°	2784.2	20.0
40°-50°	2488.9	17.9
50°-60°	1720.8	12.4
60°-70°	1135.5	8.2
70°-80°	766.1	5.5
80°-90°	328.1	2.4
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°	4675.4	33.6
0°-40°	7459.5	53.7
0°-60°	11669.3	84.0
0°-90°	13899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6005	6005	6005	6005	6005	
5°	5982	6018	5995	6019	6024	569
15°	5823	5851	5845	5878	5874	1644
25°	5444	5496	5363	5203	5130	2509
35°	4818	4717	4341	4278	4250	3005
45°	3613	3307	3128	3152	3117	2748
55°	1974	1802	1937	1910	1936	1793
65°	1091	969	1084	1268	1378	1089
75°	517	650	764	816	838	564
85°	205	286	349	351	324	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6004.8	6004.8	6004.8	6004.8	6004.8
2.5°	5984.4	6021.8	5993.9	6019.8	6044.9
5°	5981.7	6018.4	5994.6	6019.0	6023.8
7.5°	5964.7	5998.6	5970.8	5994.6	6000.0
10°	5927.9	5968.1	5935.4	5972.1	5979.0
12.5°	5880.4	5921.2	5892.6	5942.9	5945.6
15°	5823.2	5851.1	5845.0	5877.6	5873.6
17.5°	5751.1	5783.2	5778.4	5786.5	5767.5
20°	5659.4	5695.4	5680.4	5643.0	5596.1
22.5°	5560.8	5604.3	5545.2	5450.6	5384.6
25°	5444.5	5496.2	5362.9	5203.1	5129.7
27.5°	5316.0	5362.2	5140.6	4944.7	4868.6
30°	5171.8	5191.5	4882.8	4696.5	4644.8
32.5°	5005.2	4976.7	4607.4	4484.4	4454.5
35°	4818.3	4716.9	4340.9	4277.7	4250.4
37.5°	4607.4	4421.9	4077.8	4048.5	4019.9
40°	4355.2	4081.1	3795.6	3776.6	3733.0
42.5°	4029.5	3710.6	3482.1	3459.7	3420.9
45°	3613.4	3307.3	3128.5	3152.3	3117.0
47.5°	3134.6	2902.8	2789.2	2854.5	2789.2
50°	2664.1	2508.4	2477.1	2536.3	2460.1
52.5°	2278.6	2138.5	2203.1	2213.3	2167.8
55°	1973.9	1801.9	1937.3	1910.0	1936.5
57.5°	1708.8	1516.3	1682.9	1651.6	1742.8
60°	1489.8	1273.6	1446.3	1439.5	1616.9
62.5°	1275.0	1102.3	1240.9	1340.9	1559.1
65°	1091.4	969.0	1084.5	1268.1	1377.6
67.5°	915.2	869.0	992.0	1094.1	1213.8
70°	761.5	785.3	984.6	965.5	1062.8
72.5°	632.4	713.3	869.0	872.4	941.1
75°	516.8	650.1	763.6	816.0	838.4
77.5°	429.7	589.5	689.5	707.9	686.1
80°	360.4	519.5	603.1	595.0	564.3
82.5°	291.0	393.7	475.3	482.8	446.7
85°	205.3	285.6	348.9	350.9	323.7
87.5°	110.1	176.1	211.5	217.6	201.3
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)