

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: P730650

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730650
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-LD5-18SE-W-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18733.0 lumens
Efficiency: N/A
Efficacy: 163.2 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

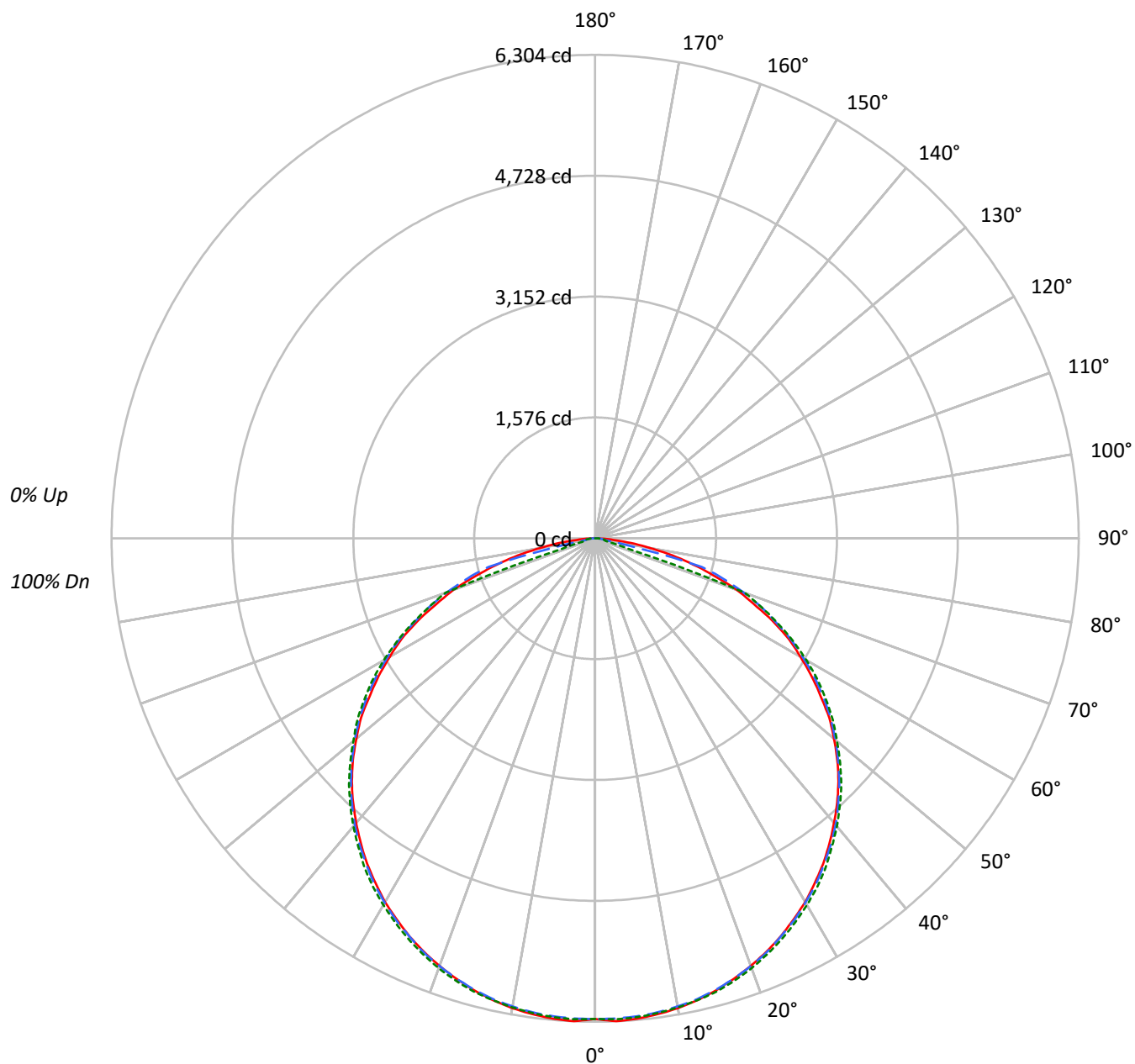
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10121	10121	10121
5°	10194	10142	10160
10°	10199	10163	10183
15°	10198	10184	10231
20°	10197	10200	10253
25°	10202	10207	10269
30°	10213	10226	10294
35°	10212	10245	10330
40°	10213	10278	10334
45°	10242	10280	10363
50°	10211	10270	10337
55°	10098	10240	10350
60°	9984	10146	10272
65°	9763	9966	10040
70°	9269	9664	9783
75°	8267	8964	1080
80°	6648	1117	1182
85°	4424	1449	1475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.4	3.2
10°-20°	1720.4	9.2
20°-30°	2643.2	14.1
30°-40°	3253.9	17.4
40°-50°	3469.0	18.5
50°-60°	3242.8	17.3
60°-70°	2567.1	13.7
70°-80°	1092.2	5.8
80°-90°	149.1	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°	4958.9	26.5
0°-40°	8212.8	43.8
0°-60°	14924.6	79.7
0°-90°	18733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6269	6269	6269	6269	6269	
5°	6290	6262	6257	6232	6269	598
15°	6101	6090	6093	6076	6121	1723
25°	5727	5720	5730	5727	5764	2640
35°	5181	5172	5198	5216	5241	3242
45°	4485	4460	4502	4520	4538	3456
55°	3587	3599	3638	3650	3677	3212
65°	2556	2578	2608	2628	2628	2514
75°	1325	1382	1437	235	173	1402
85°	239	71	78	81	80	311
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6268.6	6268.6	6268.6	6268.6	6268.6
2.5°	6303.5	6274.2	6268.6	6243.5	6277.0
5°	6289.5	6261.6	6257.4	6232.3	6268.6
7.5°	6260.2	6237.9	6235.1	6208.6	6244.9
10°	6221.1	6200.2	6198.8	6175.0	6211.3
12.5°	6168.1	6149.9	6155.5	6131.7	6168.1
15°	6101.0	6089.9	6092.6	6075.9	6120.6
17.5°	6020.0	6014.4	6020.0	6007.5	6048.0
20°	5934.8	5927.9	5936.2	5929.3	5967.0
22.5°	5835.7	5827.3	5844.1	5834.3	5869.2
25°	5726.8	5719.8	5729.6	5726.8	5764.5
27.5°	5602.5	5595.5	5616.5	5617.9	5647.2
30°	5478.2	5468.4	5485.2	5492.2	5521.5
32.5°	5330.2	5327.4	5352.5	5358.1	5388.8
35°	5180.8	5172.4	5197.5	5215.7	5240.8
37.5°	5017.4	5016.0	5042.5	5057.9	5070.5
40°	4845.6	4838.6	4876.4	4891.7	4902.9
42.5°	4671.1	4655.7	4692.0	4711.6	4724.1
45°	4485.3	4460.2	4502.1	4520.3	4538.4
47.5°	4281.5	4259.1	4299.6	4319.2	4331.7
50°	4065.0	4044.1	4088.8	4105.5	4115.3
52.5°	3847.2	3826.2	3873.7	3887.7	3911.4
55°	3587.4	3598.6	3637.7	3650.3	3676.8
57.5°	3347.3	3357.0	3394.7	3410.1	3440.8
60°	3091.7	3107.1	3142.0	3157.3	3181.1
62.5°	2844.5	2845.9	2887.8	2894.8	2913.0
65°	2555.5	2577.8	2608.5	2628.1	2628.1
67.5°	2232.9	2287.4	2340.4	2336.2	2347.4
70°	1963.4	1984.3	2047.2	2056.9	2072.3
72.5°	1625.5	1679.9	1749.7	1307.1	444.1
75°	1325.2	1382.5	1436.9	234.6	173.2
77.5°	1029.2	1073.9	477.6	134.1	131.3
80°	715.0	786.2	120.1	122.9	127.1
82.5°	470.6	384.0	99.1	108.9	110.3
85°	238.8	71.2	78.2	81.0	79.6
87.5°	78.2	43.3	44.7	46.1	47.5
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)