

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: P730655

Luminaire Tested: **HBLED-LD5-18SE-W-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-WG-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17244.0 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

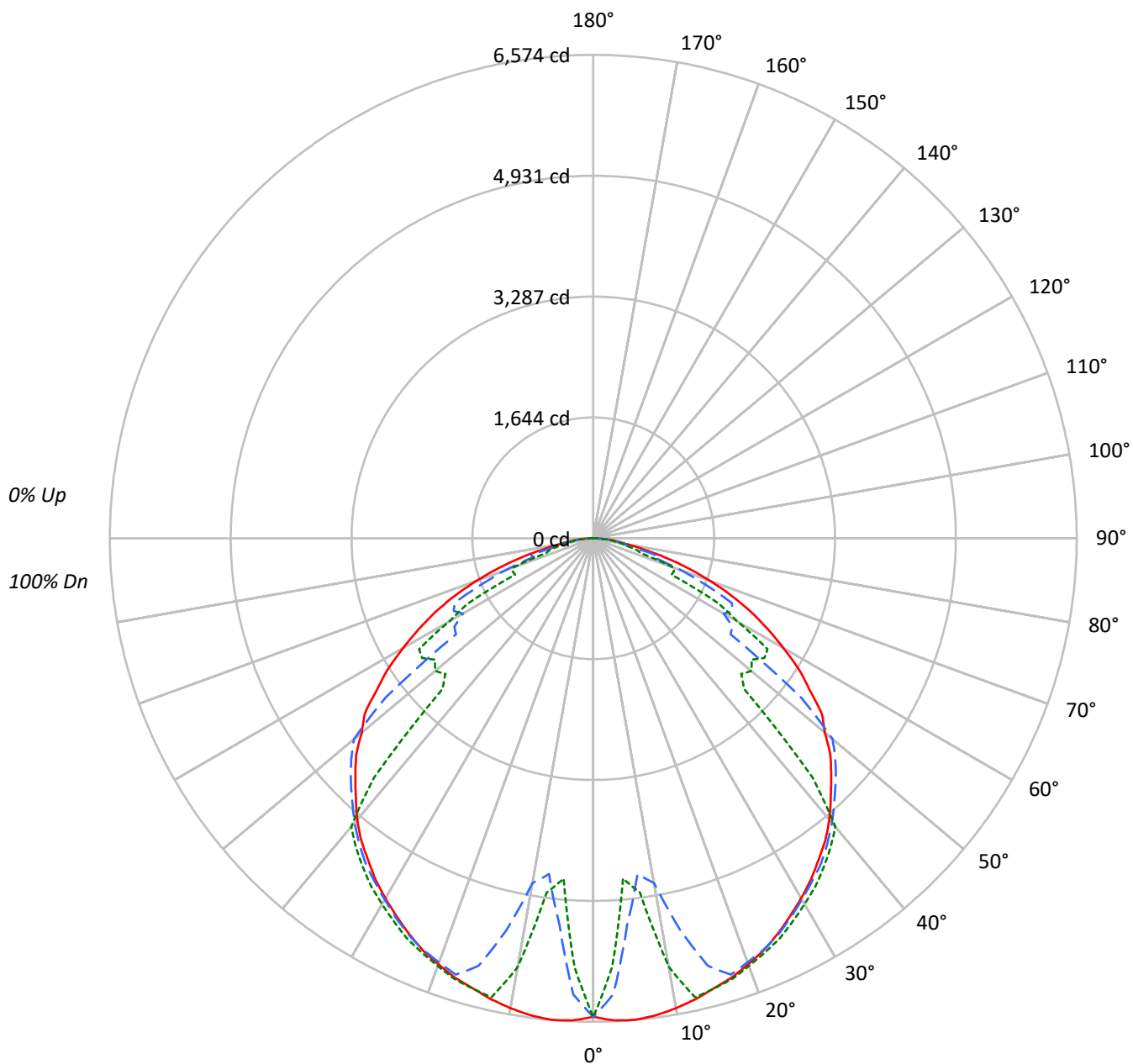
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10510	10510	10510
5°	10655	8560	7528
10°	10637	7807	9709
15°	10590	10062	10599
20°	10590	10542	10636
25°	10571	10595	10692
30°	10540	10575	10712
35°	10524	10641	10765
40°	10525	10640	10793
45°	10443	10647	6617
50°	10324	10669	7052
55°	10107	6415	7992
60°	9641	6612	7319
65°	9033	7939	4478
70°	7977	6015	5489
75°	6356	5467	3807
80°	4378	3951	3271
85°	4196	3648	3461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.5	3.0
10°-20°	1630.6	9.5
20°-30°	2682.7	15.6
30°-40°	3373.2	19.6
40°-50°	3308.3	19.2
50°-60°	2741.1	15.9
60°-70°	1933.3	11.2
70°-80°	843.5	4.9
80°-90°	210.7	1.2
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°	4833.9	28.0
0°-40°	8207.1	47.6
0°-60°	14256.4	82.7
0°-90°	17244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6509	6509	6509	6509	6509	
5°	6574	6119	5282	4789	4645	624
15°	6336	4400	6020	6360	6341	1792
25°	5934	5430	5947	5987	6002	2735
35°	5339	5336	5398	5434	5462	3345
45°	4573	4587	4663	4130	2898	3530
55°	3590	3708	2279	2591	2839	3212
65°	2364	2504	2078	1599	1172	2325
75°	1019	999	876	573	610	1093
85°	226	202	197	188	187	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6509.1	6509.1	6509.1	6509.1	6509.1
2.5°	6562.8	6426.5	6210.2	5937.8	5841.3
5°	6574.4	6119.1	5281.6	4789.0	4645.0
7.5°	6541.0	5561.0	4604.5	4708.0	4860.6
10°	6488.1	5070.7	4761.8	5602.3	5922.2
12.5°	6420.3	4634.9	5455.2	6328.5	6392.3
15°	6335.5	4399.8	6019.5	6360.4	6340.9
17.5°	6263.9	4537.6	6221.9	6296.6	6282.5
20°	6163.5	4812.3	6135.5	6195.4	6189.9
22.5°	6062.3	5137.6	6053.7	6096.6	6096.6
25°	5933.9	5429.5	5947.1	5986.8	6001.6
27.5°	5793.0	5597.6	5814.0	5846.7	5873.1
30°	5653.6	5621.8	5672.4	5714.4	5745.5
32.5°	5506.6	5494.2	5533.8	5578.2	5617.9
35°	5339.2	5336.1	5398.4	5434.2	5461.5
37.5°	5182.0	5171.1	5228.7	5278.5	5299.5
40°	4993.7	4993.7	5048.1	5098.7	5120.6
42.5°	4778.8	4809.2	4851.3	4903.4	4416.2
45°	4573.4	4587.4	4662.9	4129.8	2897.7
47.5°	4375.7	4393.5	4465.2	2654.8	2727.2
50°	4110.3	4191.2	4247.3	2647.1	2807.4
52.5°	3916.5	3951.5	3565.4	2620.6	2710.9
55°	3590.4	3707.9	2278.9	2591.0	2839.3
57.5°	3311.8	3397.4	2240.8	2654.8	2808.9
60°	2985.6	3116.4	2047.7	2561.5	2266.4
62.5°	2672.7	2797.2	2138.0	2015.9	1919.3
65°	2364.5	2503.8	2078.1	1598.7	1172.1
67.5°	2026.7	1896.8	1657.8	1126.2	1185.4
70°	1689.7	1324.7	1274.1	1259.3	1162.8
72.5°	1343.4	966.7	846.0	944.9	676.4
75°	1018.8	998.6	876.4	572.8	610.2
77.5°	706.7	720.7	469.3	558.8	463.8
80°	470.9	407.9	424.9	356.5	351.8
82.5°	326.1	333.1	279.4	270.8	274.8
85°	226.5	201.6	196.9	188.4	186.8
87.5°	75.5	88.0	81.8	73.9	78.6
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)