

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: P730631

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CL-WG-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16151.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

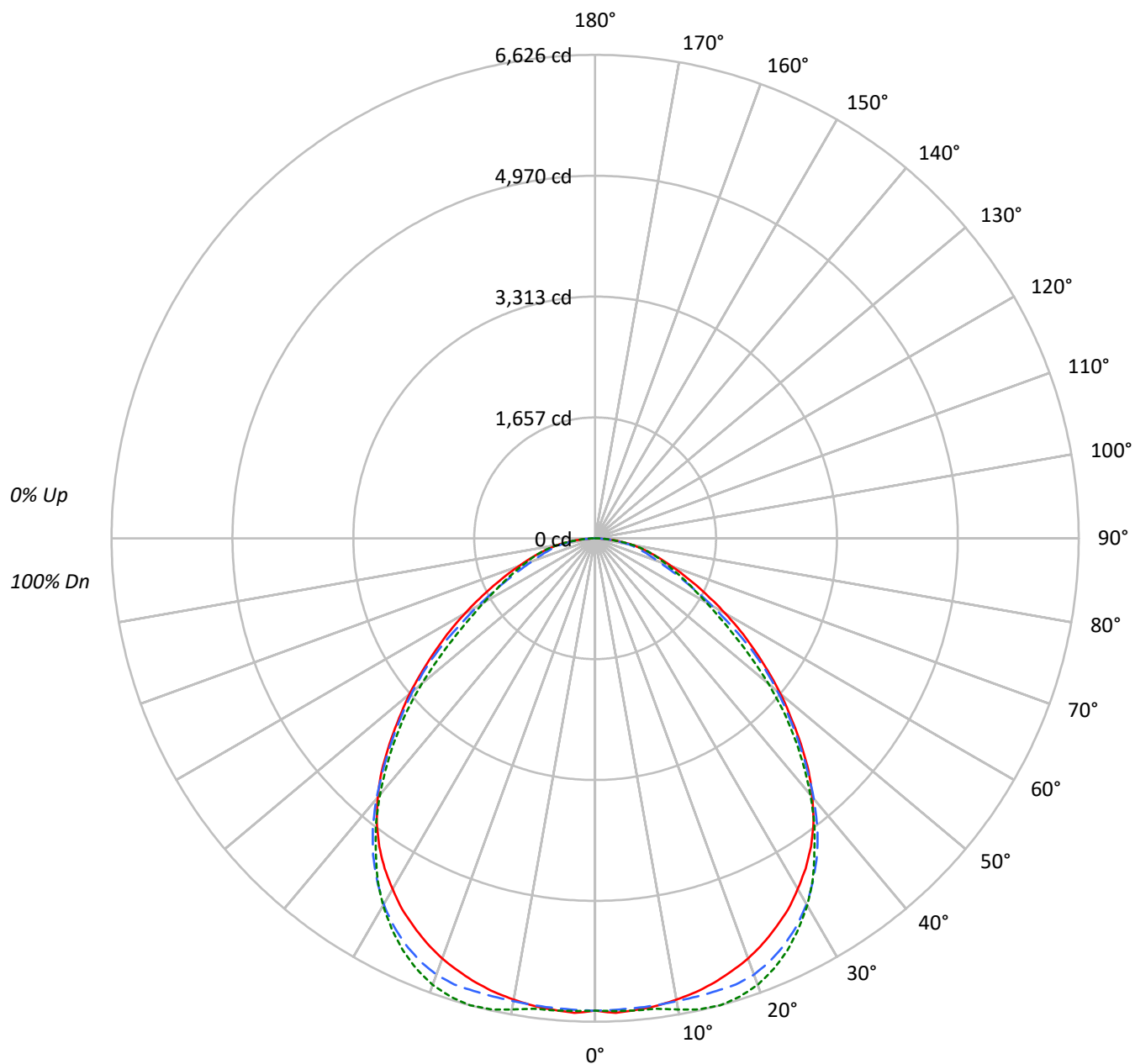
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10456	10456	10456
5°	10518	10474	10526
10°	10527	10563	10752
15°	10540	10738	11076
20°	10533	10935	11191
25°	10469	10945	11106
30°	10349	10800	10834
35°	10164	10450	10325
40°	9763	9823	9668
45°	9096	9001	8818
50°	8329	8194	7775
55°	7481	7204	6573
60°	6635	5960	5674
65°	5846	4952	5150
70°	5228	4298	4905
75°	4898	4178	4960
80°	4768	4224	4722
85°	3805	3342	3466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.9	3.8
10°-20°	1817.2	11.3
20°-30°	2795.5	17.3
30°-40°	3262.5	20.2
40°-50°	3031.7	18.8
50°-60°	2247.2	13.9
60°-70°	1373.8	8.5
70°-80°	782.5	4.8
80°-90°	223.8	1.4
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°	5229.5	32.4
0°-40°	8492.0	52.6
0°-60°	13771.0	85.3
0°-90°	16151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6476	6476	6476	6476	6476	
5°	6490	6459	6463	6458	6494	617
15°	6306	6302	6424	6551	6626	1780
25°	5876	5922	6144	6196	6234	2707
35°	5156	5196	5302	5258	5238	3213
45°	3984	4007	3942	3880	3862	3070
55°	2658	2591	2559	2377	2335	2385
65°	1530	1390	1296	1331	1348	1531
75°	785	737	670	763	795	840
85°	205	200	180	187	187	237
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6476.1	6476.1	6476.1	6476.1	6476.1
2.5°	6511.2	6474.4	6467.7	6452.7	6486.1
5°	6489.5	6459.4	6462.7	6457.7	6494.5
7.5°	6464.4	6442.7	6456.0	6454.3	6502.8
10°	6421.0	6409.3	6442.7	6479.4	6557.9
12.5°	6372.5	6360.8	6434.3	6527.8	6613.1
15°	6305.7	6302.3	6424.3	6551.2	6626.4
17.5°	6222.2	6227.2	6412.6	6521.2	6588.0
20°	6130.3	6138.7	6364.2	6452.7	6512.9
22.5°	6011.7	6040.1	6270.6	6344.1	6390.9
25°	5876.4	5921.5	6143.7	6195.5	6233.9
27.5°	5731.1	5776.2	5986.6	6013.4	6035.1
30°	5550.7	5614.1	5792.9	5796.3	5811.2
32.5°	5366.9	5423.8	5560.7	5545.7	5549.0
35°	5156.5	5196.5	5301.8	5258.4	5238.3
37.5°	4914.3	4936.0	5002.8	4937.7	4934.3
40°	4632.0	4660.4	4660.4	4570.2	4586.9
42.5°	4331.3	4341.3	4299.6	4214.4	4227.7
45°	3983.8	4007.2	3942.1	3880.3	3861.9
47.5°	3639.7	3663.1	3594.7	3522.9	3491.1
50°	3315.7	3304.0	3262.3	3140.3	3095.2
52.5°	2980.0	2943.2	2926.5	2747.8	2696.0
55°	2657.6	2590.8	2559.1	2376.9	2335.2
57.5°	2358.6	2238.4	2178.2	2036.2	2019.5
60°	2054.6	1919.3	1845.8	1753.9	1757.2
62.5°	1779.0	1636.9	1548.5	1521.8	1533.4
65°	1530.1	1389.7	1296.2	1331.3	1348.0
67.5°	1304.6	1189.3	1084.1	1165.9	1182.6
70°	1107.5	1015.6	910.4	1030.7	1039.0
72.5°	943.7	868.6	780.1	893.6	912.0
75°	785.1	736.7	669.8	763.4	795.1
77.5°	646.4	608.1	569.6	626.4	661.5
80°	512.8	474.4	454.3	484.4	507.8
82.5°	362.5	337.5	317.4	339.1	350.8
85°	205.4	200.4	180.4	187.1	187.1
87.5°	46.8	53.4	60.1	55.1	46.8
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)