

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: P730625

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
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-UNV-L835
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16424.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

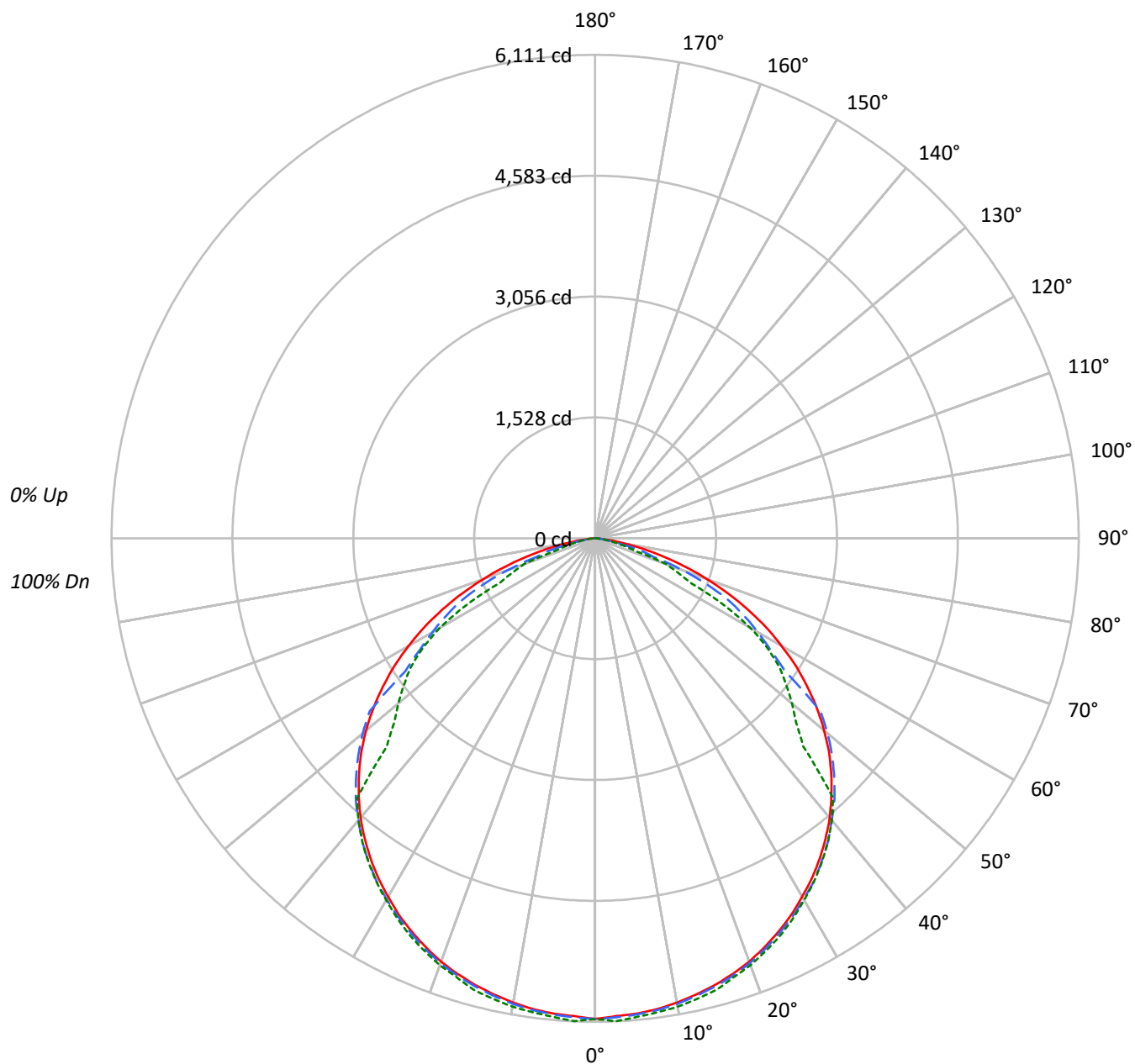
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9809	9809	9809
5°	9773	9795	9843
10°	9772	9800	9857
15°	9772	9801	9880
20°	9784	9821	9866
25°	9773	9809	9869
30°	9754	9826	9848
35°	9750	9838	9846
40°	9719	9805	9805
45°	9636	9752	8497
50°	9487	9630	8153
55°	9218	8244	8008
60°	8785	7663	7316
65°	8125	7113	5067
70°	7074	5535	4515
75°	5588	3715	2427
80°	3596	1774	1513
85°	1480	1084	1191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.3	3.5
10°-20°	1661.0	10.1
20°-30°	2546.6	15.5
30°-40°	3121.3	19.0
40°-50°	3208.9	19.5
50°-60°	2738.7	16.7
60°-70°	1810.6	11.0
70°-80°	670.8	4.1
80°-90°	89.7	0.5
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°	4784.0	29.1
0°-40°	7905.3	48.1
0°-60°	13852.9	84.3
0°-90°	16424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6075	6075	6075	6075	6075	
5°	6030	6072	6043	6067	6073	574
15°	5846	5881	5864	5908	5911	1651
25°	5486	5514	5506	5556	5540	2529
35°	4946	4980	4992	5023	4995	3094
45°	4220	4262	4271	4264	3721	3252
55°	3275	3335	2928	2843	2845	2922
65°	2127	2144	1862	1531	1326	2097
75°	896	785	596	400	389	961
85°	80	57	58	64	64	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6075.2	6075.2	6075.2	6075.2	6075.2
2.5°	6045.6	6083.3	6061.1	6089.2	6110.6
5°	6030.1	6072.2	6043.3	6067.0	6072.9
7.5°	6003.4	6042.6	6016.0	6047.1	6042.6
10°	5960.5	5996.0	5977.5	6010.1	6012.3
12.5°	5905.8	5941.3	5924.3	5964.2	5963.4
15°	5845.8	5881.4	5863.6	5908.0	5911.0
17.5°	5775.6	5808.2	5794.8	5835.5	5819.2
20°	5694.2	5722.3	5715.6	5754.1	5742.3
22.5°	5594.3	5623.2	5616.6	5661.0	5643.2
25°	5485.6	5514.5	5506.3	5555.9	5539.7
27.5°	5368.0	5395.3	5394.6	5441.3	5416.1
30°	5231.9	5268.2	5270.4	5311.8	5282.2
32.5°	5097.3	5131.3	5140.9	5171.3	5146.1
35°	4946.4	4980.4	4991.5	5022.6	4995.2
37.5°	4783.6	4812.5	4832.5	4855.4	4833.9
40°	4611.3	4637.2	4652.0	4680.1	4652.0
42.5°	4419.0	4456.0	4476.7	4496.7	4450.8
45°	4220.0	4262.1	4271.0	4264.4	3721.4
47.5°	4009.2	4055.1	4060.3	3541.0	3441.1
50°	3776.9	3834.6	3833.9	3272.4	3245.8
52.5°	3535.0	3590.5	3588.3	3062.4	3044.6
55°	3274.6	3334.6	2928.5	2843.4	2844.9
57.5°	3009.1	3052.0	2627.5	2631.1	2582.3
60°	2720.6	2761.3	2373.0	2350.0	2265.7
62.5°	2431.4	2448.4	2126.7	2014.9	1854.4
65°	2126.7	2144.4	1861.9	1531.2	1326.3
67.5°	1813.8	1831.5	1545.2	1139.2	1123.6
70°	1498.6	1353.6	1172.5	949.1	956.4
72.5°	1188.0	1040.0	766.3	735.2	531.1
75°	895.8	784.8	595.5	400.2	389.1
77.5°	623.6	540.7	318.8	273.0	255.2
80°	386.8	271.5	190.8	169.4	162.7
82.5°	196.0	156.1	103.6	103.6	103.6
85°	79.9	57.0	58.5	63.6	64.3
87.5°	17.0	22.9	28.1	28.9	28.1
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)