

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: P#

Luminaire Tested: **HBLED-LD5-18HE-W-CLWG-UNV-L850-ED2-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLWG-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17583.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

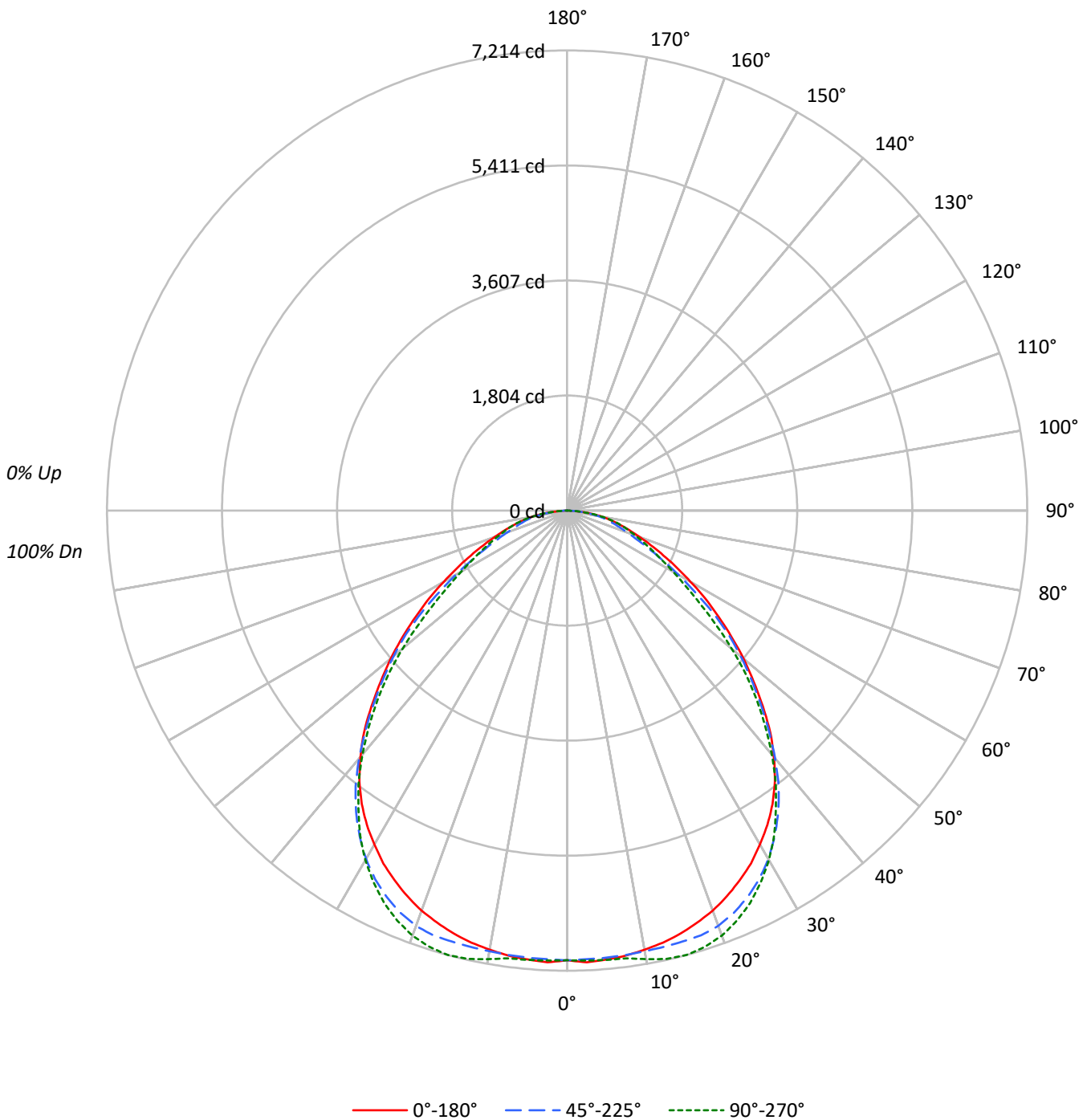
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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°	9486	9486	9486
5°	9542	9503	9549
10°	9550	9583	9754
15°	9562	9742	10049
20°	9556	9920	10152
25°	9497	9929	10075
30°	9388	9798	9829
35°	9221	9481	9367
40°	8857	8911	8771
45°	8253	8166	8000
50°	7556	7434	7053
55°	6787	6535	5963
60°	6019	5407	5148
65°	5303	4493	4672
70°	4743	3899	4450
75°	4443	3791	4500
80°	4326	3832	4283
85°	3453	3032	3145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.6	3.8
10°-20°	1978.3	11.3
20°-30°	3043.3	17.3
30°-40°	3551.7	20.2
40°-50°	3300.5	18.8
50°-60°	2446.5	13.9
60°-70°	1495.5	8.5
70°-80°	851.9	4.8
80°-90°	243.6	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°	5693.2	32.4
0°-40°	9245.0	52.6
0°-60°	14991.9	85.3
0°-90°	17583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7050	7050	7050	7050	7050	
5°	7065	7032	7036	7030	7070	672
15°	6865	6861	6994	7132	7214	1938
25°	6397	6446	6688	6745	6787	2947
35°	5614	5657	5772	5725	5703	3498
45°	4337	4363	4292	4224	4204	3342
55°	2893	2820	2786	2588	2542	2596
65°	1666	1513	1411	1449	1468	1667
75°	855	802	729	831	866	915
85°	224	218	196	204	204	258
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7050.3	7050.3	7050.3	7050.3	7050.3
2.5°	7088.5	7048.5	7041.2	7024.8	7061.2
5°	7064.8	7032.1	7035.7	7030.3	7070.3
7.5°	7037.5	7013.9	7028.5	7026.6	7079.4
10°	6990.3	6977.5	7013.9	7053.9	7139.4
12.5°	6937.5	6924.8	7004.8	7106.6	7199.4
15°	6864.8	6861.2	6993.9	7132.1	7213.9
17.5°	6773.9	6779.3	6981.2	7099.4	7172.1
20°	6673.8	6682.9	6928.4	7024.8	7090.3
22.5°	6544.7	6575.7	6826.6	6906.6	6957.5
25°	6397.4	6446.5	6688.4	6744.8	6786.6
27.5°	6239.2	6288.3	6517.5	6546.6	6570.2
30°	6042.8	6111.9	6306.5	6310.2	6326.5
32.5°	5842.8	5904.6	6053.7	6037.4	6041.0
35°	5613.7	5657.3	5771.9	5724.6	5702.8
37.5°	5350.0	5373.6	5446.4	5375.4	5371.8
40°	5042.7	5073.6	5073.6	4975.4	4993.6
42.5°	4715.3	4726.2	4680.8	4588.0	4602.6
45°	4337.1	4362.6	4291.6	4224.3	4204.3
47.5°	3962.5	3987.9	3913.4	3835.2	3800.6
50°	3609.7	3597.0	3551.5	3418.8	3369.7
52.5°	3244.2	3204.2	3186.0	2991.4	2935.0
55°	2893.2	2820.5	2785.9	2587.7	2542.2
57.5°	2567.7	2436.8	2371.3	2216.7	2198.6
60°	2236.7	2089.4	2009.4	1909.4	1913.0
62.5°	1936.7	1782.1	1685.7	1656.6	1669.4
65°	1665.7	1513.0	1411.1	1449.3	1467.5
67.5°	1420.2	1294.8	1180.2	1269.3	1287.5
70°	1205.7	1105.6	991.1	1122.0	1131.1
72.5°	1027.4	945.6	849.2	972.9	992.9
75°	854.7	802.0	729.2	831.0	865.6
77.5°	703.8	661.9	620.1	681.9	720.1
80°	558.3	516.5	494.6	527.4	552.8
82.5°	394.6	367.3	345.5	369.2	381.9
85°	223.7	218.2	196.4	203.7	203.7
87.5°	50.9	58.2	65.5	60.0	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)