

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-LD5-18SE-N-CLWG-UNV-L850-ED1-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CLWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

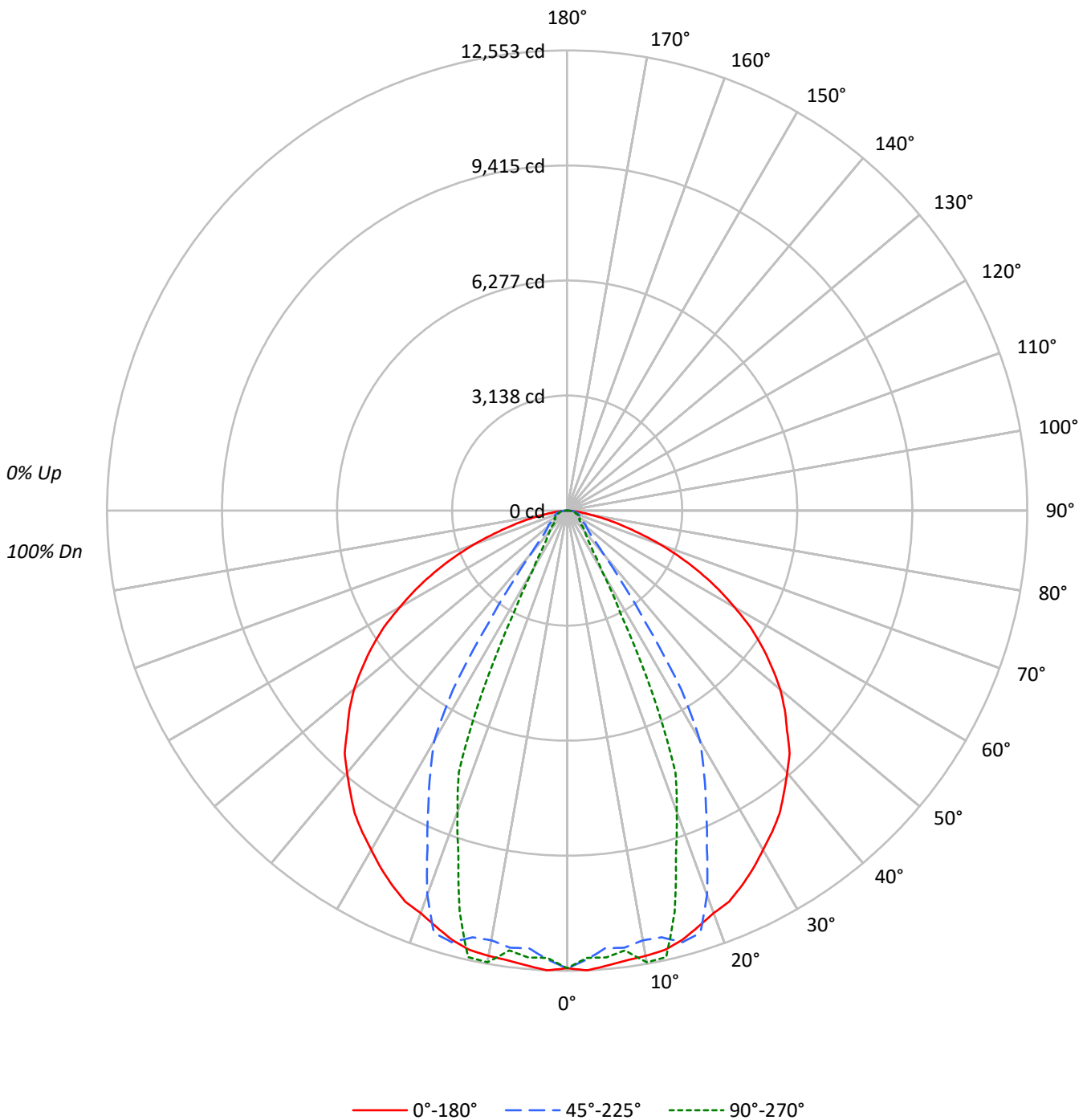
Lumens per Lamp: N/A
Luminaire Lumens: 16784.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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					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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16798	16798	16798
5°	16826	16185	16526
10°	16850	16263	17097
15°	16888	16976	15778
20°	16728	15967	12523
25°	16752	13311	8181
30°	16602	11276	2939
35°	16585	6109	1653
40°	16397	2663	1295
45°	16143	1646	1015
50°	15892	1434	958
55°	15267	1244	938
60°	14165	1114	1008
65°	12732	1259	1101
70°	10678	1354	1135
75°	7983	1544	1229
80°	5013	1793	1402
85°	3338	2248	2052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1157.2	6.9
10°-20°	3267.6	19.5
20°-30°	4001.2	23.8
30°-40°	3142.2	18.7
40°-50°	2330.1	13.9
50°-60°	1418.5	8.5
60°-70°	849.7	5.1
70°-80°	466.2	2.8
80°-90°	151.2	0.9
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°	8426.0	50.2
0°-40°	11568.2	68.9
0°-60°	15316.9	91.3
0°-90°	16784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12485	12485	12485	12485	12485	
5°	12458	12119	11983	12115	12236	###
15°	12124	11792	12187	11695	11327	3413
25°	11284	11319	8966	7032	5510	5194
35°	10097	9185	3719	1244	1006	6300
45°	8484	6092	865	656	534	6561
55°	6508	1679	530	448	400	5792
65°	3999	495	396	372	346	3951
75°	1536	312	297	258	236	1663
85°	216	170	146	134	133	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12484.8	12484.8	12484.8	12484.8	12484.8
2.5°	12552.9	12383.8	12254.2	12181.9	12211.3
5°	12457.9	12118.8	11983.3	12115.4	12235.7
7.5°	12375.4	11871.4	12024.5	12036.3	12099.4
10°	12333.3	11847.8	11903.4	12165.0	12514.2
12.5°	12277.8	11902.5	11921.9	12278.6	12475.5
15°	12123.8	11791.5	12186.9	11694.7	11327.0
17.5°	11899.2	11532.3	12075.9	10360.2	9860.4
20°	11682.9	11250.4	11151.2	9228.5	8746.4
22.5°	11543.2	11207.5	9961.4	8223.1	7724.9
25°	11284.1	11319.4	8966.0	7032.5	5510.4
27.5°	10998.9	11056.1	8085.9	4690.0	3157.0
30°	10685.9	10751.5	7258.0	2771.6	1891.5
32.5°	10402.3	10032.1	5796.4	1729.1	1315.1
35°	10096.9	9184.8	3719.0	1244.4	1006.3
37.5°	9712.3	8294.6	2354.3	984.4	844.8
40°	9335.4	7495.2	1516.2	840.6	737.1
42.5°	8982.8	6836.4	1103.1	734.5	665.6
45°	8483.9	6091.8	865.0	655.5	533.5
47.5°	8052.3	5218.4	756.4	554.5	460.2
50°	7592.0	3989.9	684.9	493.1	457.7
52.5°	7045.9	2610.0	632.7	472.0	427.4
55°	6508.3	1678.6	530.1	448.5	399.7
57.5°	5927.7	1064.4	467.8	435.0	417.3
60°	5263.8	717.7	414.0	412.3	374.4
62.5°	4649.6	589.8	399.7	395.5	354.2
65°	3999.2	494.7	395.5	371.9	345.8
67.5°	3349.6	424.1	357.6	339.9	317.2
70°	2714.4	387.9	344.1	336.6	288.6
72.5°	2061.4	319.7	305.4	285.2	239.8
75°	1535.6	312.2	297.0	258.3	236.4
77.5°	1039.1	287.8	270.1	231.4	213.7
80°	647.0	264.2	231.4	202.8	180.9
82.5°	384.5	220.4	190.2	167.4	153.1
85°	216.2	170.0	145.6	133.8	132.9
87.5°	46.3	61.4	48.8	46.3	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)