

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-CL-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

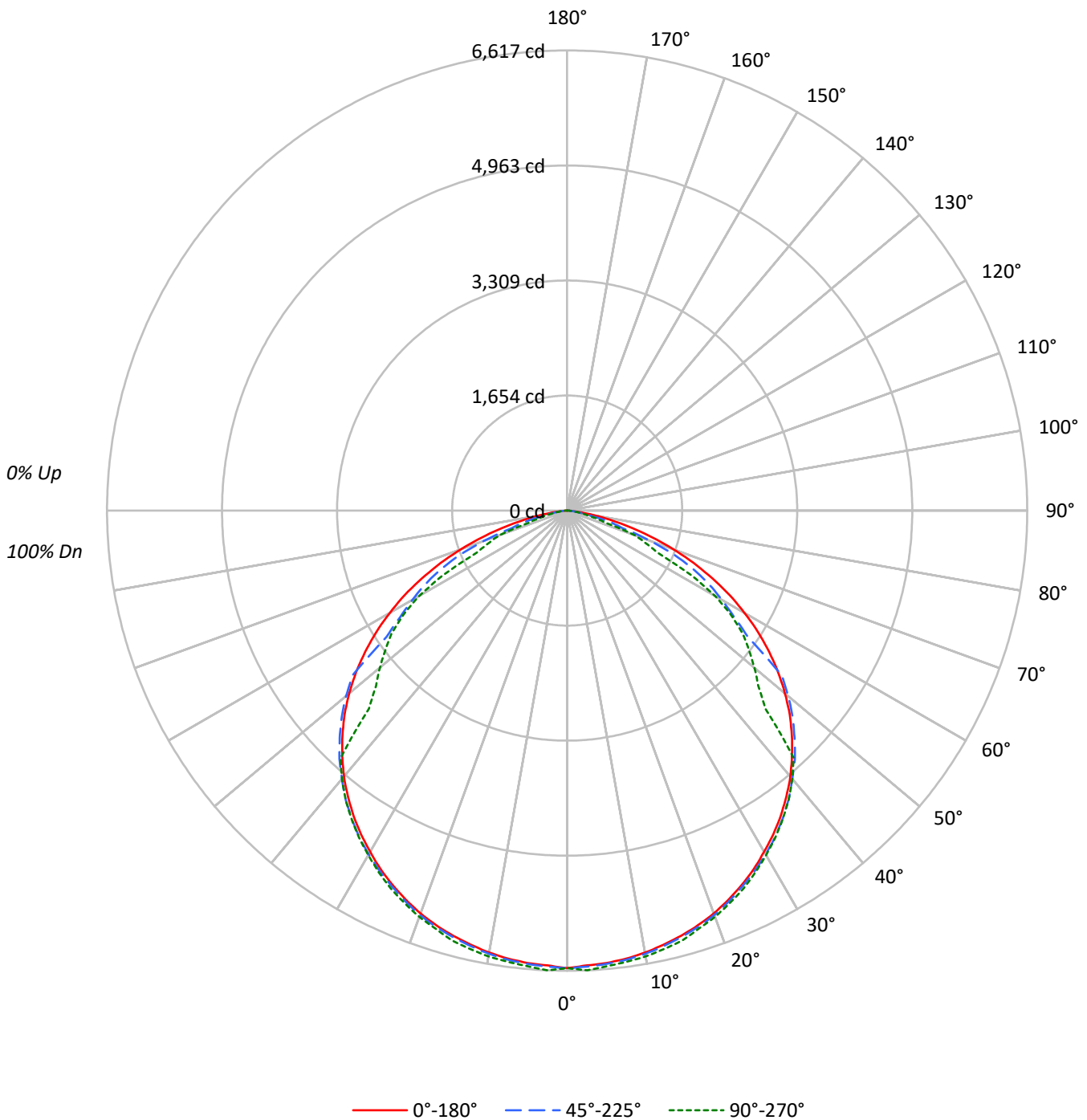
Lumens per Lamp: N/A
Luminaire Lumens: 17784.0 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (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	0
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°	8851	8851	8851
5°	8819	8838	8881
10°	8818	8843	8895
15°	8817	8844	8915
20°	8828	8862	8903
25°	8818	8852	8905
30°	8802	8866	8886
35°	8797	8878	8884
40°	8770	8847	8847
45°	8695	8800	7668
50°	8561	8690	7357
55°	8318	7438	7226
60°	7927	6914	6602
65°	7331	6418	4572
70°	6384	4994	4074
75°	5043	3352	2190
80°	3246	1601	1365
85°	1335	977	1076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.0	3.5
10°-20°	1798.6	10.1
20°-30°	2757.5	15.5
30°-40°	3379.8	19.0
40°-50°	3474.6	19.5
50°-60°	2965.4	16.7
60°-70°	1960.5	11.0
70°-80°	726.4	4.1
80°-90°	97.1	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°	5180.1	29.1
0°-40°	8559.9	48.1
0°-60°	15000.0	84.3
0°-90°	17784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6578	6578	6578	6578	6578	
5°	6529	6575	6544	6569	6576	621
15°	6330	6368	6349	6397	6400	1788
25°	5940	5971	5962	6016	5998	2739
35°	5356	5393	5405	5438	5409	3350
45°	4569	4615	4625	4618	4030	3521
55°	3546	3611	3171	3079	3080	3164
65°	2303	2322	2016	1658	1436	2271
75°	970	850	645	433	421	1041
85°	86	62	63	69	70	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6578.2	6578.2	6578.2	6578.2	6578.2
2.5°	6546.2	6587.0	6563.0	6593.5	6616.7
5°	6529.4	6575.0	6543.8	6569.4	6575.8
7.5°	6500.5	6543.0	6514.2	6547.8	6543.0
10°	6454.1	6492.5	6472.5	6507.8	6510.2
12.5°	6394.8	6433.3	6414.8	6458.1	6457.3
15°	6329.9	6368.4	6349.2	6397.2	6400.4
17.5°	6253.8	6289.1	6274.7	6318.7	6301.1
20°	6165.7	6196.2	6189.0	6230.6	6217.8
22.5°	6057.6	6088.9	6081.6	6129.7	6110.5
25°	5939.9	5971.1	5962.3	6016.0	5998.3
27.5°	5812.5	5842.2	5841.4	5891.8	5864.6
30°	5665.1	5704.4	5706.8	5751.7	5719.6
32.5°	5519.4	5556.2	5566.6	5599.5	5572.2
35°	5356.0	5392.8	5404.8	5438.5	5408.8
37.5°	5179.8	5211.0	5232.6	5257.5	5234.2
40°	4993.1	5021.2	5037.2	5067.6	5037.2
42.5°	4784.9	4824.9	4847.4	4869.0	4819.3
45°	4569.4	4615.1	4624.7	4617.5	4029.6
47.5°	4341.2	4390.8	4396.4	3834.2	3726.0
50°	4089.7	4152.1	4151.3	3543.4	3514.6
52.5°	3827.8	3887.8	3885.4	3315.9	3296.7
55°	3545.8	3610.7	3171.0	3078.9	3080.5
57.5°	3258.3	3304.7	2845.0	2849.0	2796.1
60°	2945.9	2990.0	2569.5	2544.6	2453.3
62.5°	2632.7	2651.2	2302.7	2181.8	2008.0
65°	2302.7	2322.0	2016.0	1658.0	1436.1
67.5°	1963.9	1983.2	1673.2	1233.5	1216.6
70°	1622.7	1465.7	1269.5	1027.6	1035.6
72.5°	1286.3	1126.1	829.8	796.1	575.1
75°	970.0	849.8	644.8	433.3	421.3
77.5°	675.2	585.5	345.2	295.6	276.3
80°	418.9	294.0	206.6	183.4	176.2
82.5°	212.3	169.0	112.1	112.1	112.1
85°	86.5	61.7	63.3	68.9	69.7
87.5°	18.4	24.8	30.4	31.2	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)