

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-W-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CLWG-UNV-L850-ED1-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: 17256.0 lumens
Efficiency: N/A
Efficacy: 141.7 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

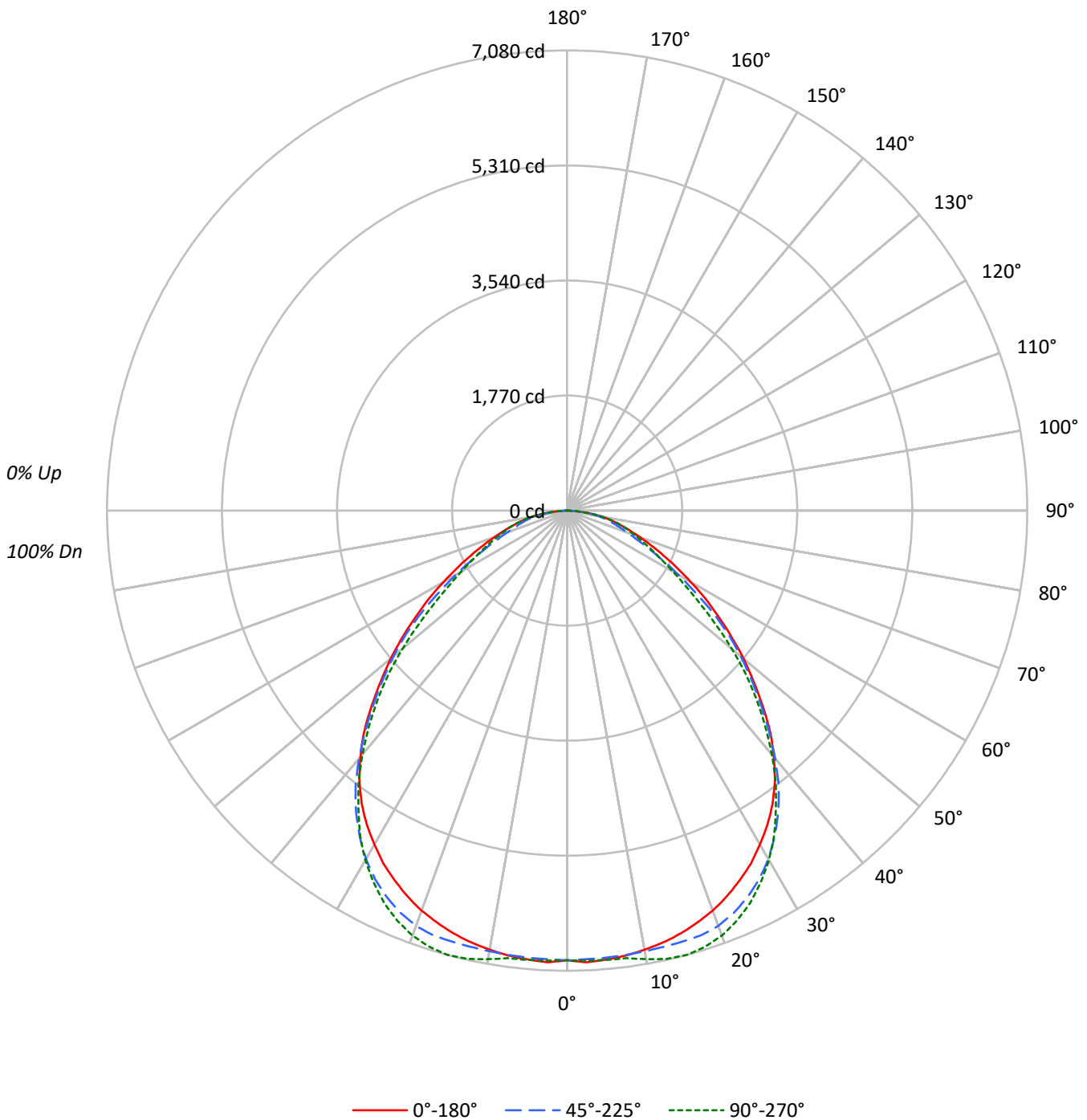
Input Watts (W): 121.76
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9310	9310	9310
5°	9364	9326	9372
10°	9373	9405	9573
15°	9384	9561	9862
20°	9378	9736	9963
25°	9321	9745	9888
30°	9214	9616	9646
35°	9049	9304	9193
40°	8692	8746	8608
45°	8099	8014	7851
50°	7415	7296	6922
55°	6661	6414	5853
60°	5907	5307	5052
65°	5205	4409	4585
70°	4655	3826	4367
75°	4361	3721	4416
80°	4245	3761	4203
85°	3389	2975	3086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.1	3.8
10°-20°	1941.5	11.3
20°-30°	2986.7	17.3
30°-40°	3485.7	20.2
40°-50°	3239.1	18.8
50°-60°	2401.0	13.9
60°-70°	1467.7	8.5
70°-80°	836.0	4.8
80°-90°	239.1	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°	5587.3	32.4
0°-40°	9073.0	52.6
0°-60°	14713.1	85.3
0°-90°	17256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6919	6919	6919	6919	6919	
5°	6933	6901	6905	6900	6939	660
15°	6737	6734	6864	7000	7080	1902
25°	6278	6327	6564	6619	6660	2892
35°	5509	5552	5664	5618	5597	3433
45°	4256	4281	4212	4146	4126	3280
55°	2839	2768	2734	2540	2495	2548
65°	1635	1485	1385	1422	1440	1636
75°	839	787	716	816	850	898
85°	220	214	193	200	200	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6919.2	6919.2	6919.2	6919.2	6919.2
2.5°	6956.6	6917.4	6910.2	6894.2	6929.9
5°	6933.4	6901.3	6904.9	6899.5	6938.8
7.5°	6906.7	6883.5	6897.7	6896.0	6947.7
10°	6860.3	6847.8	6883.5	6922.7	7006.6
12.5°	6808.5	6796.0	6874.5	6974.5	7065.5
15°	6737.1	6733.6	6863.8	6999.5	7079.8
17.5°	6647.9	6653.2	6851.3	6967.3	7038.7
20°	6549.7	6558.7	6799.6	6894.2	6958.4
22.5°	6423.0	6453.4	6699.6	6778.2	6828.1
25°	6278.5	6326.6	6564.0	6619.3	6660.4
27.5°	6123.2	6171.4	6396.3	6424.8	6448.0
30°	5930.5	5998.3	6189.2	6192.8	6208.9
32.5°	5734.1	5794.8	5941.2	5925.1	5928.7
35°	5509.3	5552.1	5664.5	5618.1	5596.7
37.5°	5250.5	5273.7	5345.1	5275.5	5271.9
40°	4948.9	4979.2	4979.2	4882.9	4900.7
42.5°	4627.6	4638.4	4593.7	4502.7	4517.0
45°	4256.4	4281.4	4211.8	4145.8	4126.2
47.5°	3888.8	3913.8	3840.6	3763.9	3730.0
50°	3542.6	3530.1	3485.5	3355.2	3307.0
52.5°	3183.8	3144.6	3126.7	2935.8	2880.5
55°	2839.4	2768.0	2734.1	2539.6	2495.0
57.5°	2520.0	2391.5	2327.2	2175.5	2157.7
60°	2195.1	2050.6	1972.1	1873.9	1877.5
62.5°	1900.7	1749.0	1654.4	1625.8	1638.3
65°	1634.8	1484.8	1384.9	1422.4	1440.2
67.5°	1393.8	1270.7	1158.2	1245.7	1263.5
70°	1183.2	1085.1	972.6	1101.1	1110.1
72.5°	1008.3	928.0	833.4	954.8	974.4
75°	838.8	787.0	715.7	815.6	849.5
77.5°	690.7	649.6	608.6	669.3	706.7
80°	547.9	506.8	485.4	517.6	542.5
82.5°	387.3	360.5	339.1	362.3	374.8
85°	219.5	214.2	192.7	199.9	199.9
87.5°	50.0	57.1	64.2	58.9	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)