

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-AWG-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-AWG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

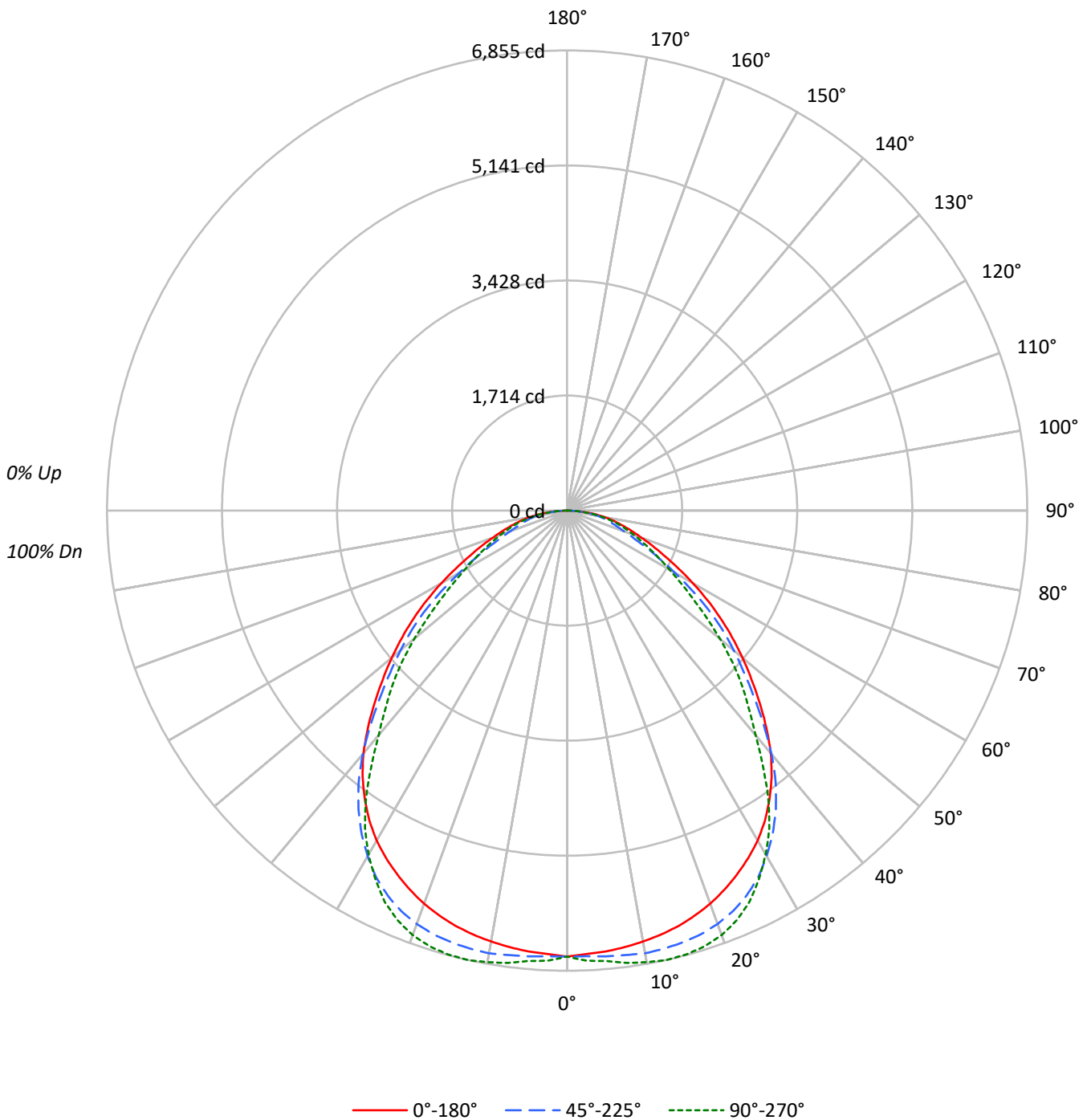
Lumens per Lamp: N/A
Luminaire Lumens: 16469.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8939	8939	8939
5°	8904	9004	9095
10°	8906	9148	9332
15°	8924	9275	9536
20°	8922	9381	9634
25°	8883	9394	9546
30°	8817	9237	9188
35°	8630	8903	8579
40°	8293	8317	7670
45°	7719	7498	7011
50°	7135	6780	6213
55°	6531	6009	5361
60°	5824	4987	4734
65°	5108	4104	4350
70°	4612	3535	4142
75°	4408	3465	4130
80°	4444	3669	4030
85°	3937	3361	3518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.2	3.9
10°-20°	1880.7	11.4
20°-30°	2884.7	17.5
30°-40°	3317.8	20.1
40°-50°	3026.1	18.4
50°-60°	2268.1	13.8
60°-70°	1395.1	8.5
70°-80°	799.5	4.9
80°-90°	258.9	1.6
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°	5403.5	32.8
0°-40°	8721.4	53.0
0°-60°	14015.5	85.1
0°-90°	16469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6644	6644	6644	6644	6644	
5°	6593	6660	6666	6721	6734	627
15°	6406	6549	6659	6801	6846	1808
25°	5984	6156	6328	6425	6430	2757
35°	5254	5357	5420	5331	5223	3277
45°	4057	4145	3940	3737	3685	3131
55°	2784	2681	2562	2335	2285	2488
65°	1604	1435	1289	1329	1366	1613
75°	848	760	667	763	794	907
85°	255	241	218	230	228	284
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6643.5	6643.5	6643.5	6643.5	6643.5
2.5°	6612.1	6659.6	6644.3	6683.3	6712.1
5°	6592.6	6659.6	6666.3	6721.4	6734.1
7.5°	6559.6	6646.8	6677.3	6774.8	6796.8
10°	6518.9	6624.0	6696.0	6801.0	6830.7
12.5°	6469.8	6591.8	6683.3	6812.9	6855.2
15°	6406.3	6548.6	6658.7	6801.0	6845.9
17.5°	6325.8	6491.0	6619.7	6759.5	6806.1
20°	6230.9	6405.4	6552.0	6695.1	6728.2
22.5°	6116.6	6291.9	6458.8	6587.6	6605.3
25°	5983.6	6155.6	6327.5	6424.9	6430.0
27.5°	5838.8	5998.8	6159.8	6212.3	6189.4
30°	5675.3	5818.4	5945.5	5956.5	5914.1
32.5°	5481.3	5610.1	5700.7	5677.0	5605.8
35°	5254.3	5356.8	5420.3	5331.4	5222.9
37.5°	5005.3	5082.3	5103.5	4910.4	4786.7
40°	4721.5	4787.6	4735.0	4466.5	4366.6
42.5°	4394.5	4470.8	4336.1	4071.0	4010.0
45°	4056.6	4144.6	3940.5	3737.2	3684.7
47.5°	3725.4	3805.8	3574.6	3411.1	3333.2
50°	3408.6	3443.3	3239.1	3054.5	2968.1
52.5°	3096.8	3062.1	2917.3	2687.7	2611.5
55°	2784.3	2680.9	2561.5	2335.3	2285.4
57.5°	2470.9	2326.9	2196.4	2022.8	2003.3
60°	2164.2	1987.2	1853.4	1750.0	1759.3
62.5°	1872.0	1691.6	1548.4	1515.4	1551.0
65°	1604.3	1434.9	1289.2	1329.0	1366.3
67.5°	1381.5	1218.9	1070.7	1172.3	1202.0
70°	1172.3	1041.0	898.7	1030.0	1052.9
72.5°	1005.5	893.6	770.0	897.9	917.4
75°	847.9	759.8	666.6	763.2	794.5
77.5°	710.7	637.8	574.3	631.1	664.9
80°	573.5	511.6	473.5	498.9	520.1
82.5°	420.1	380.3	352.4	363.4	366.8
85°	255.0	240.6	217.7	229.6	227.9
87.5°	83.9	95.7	100.8	90.6	85.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)