

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-L740-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-L740-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

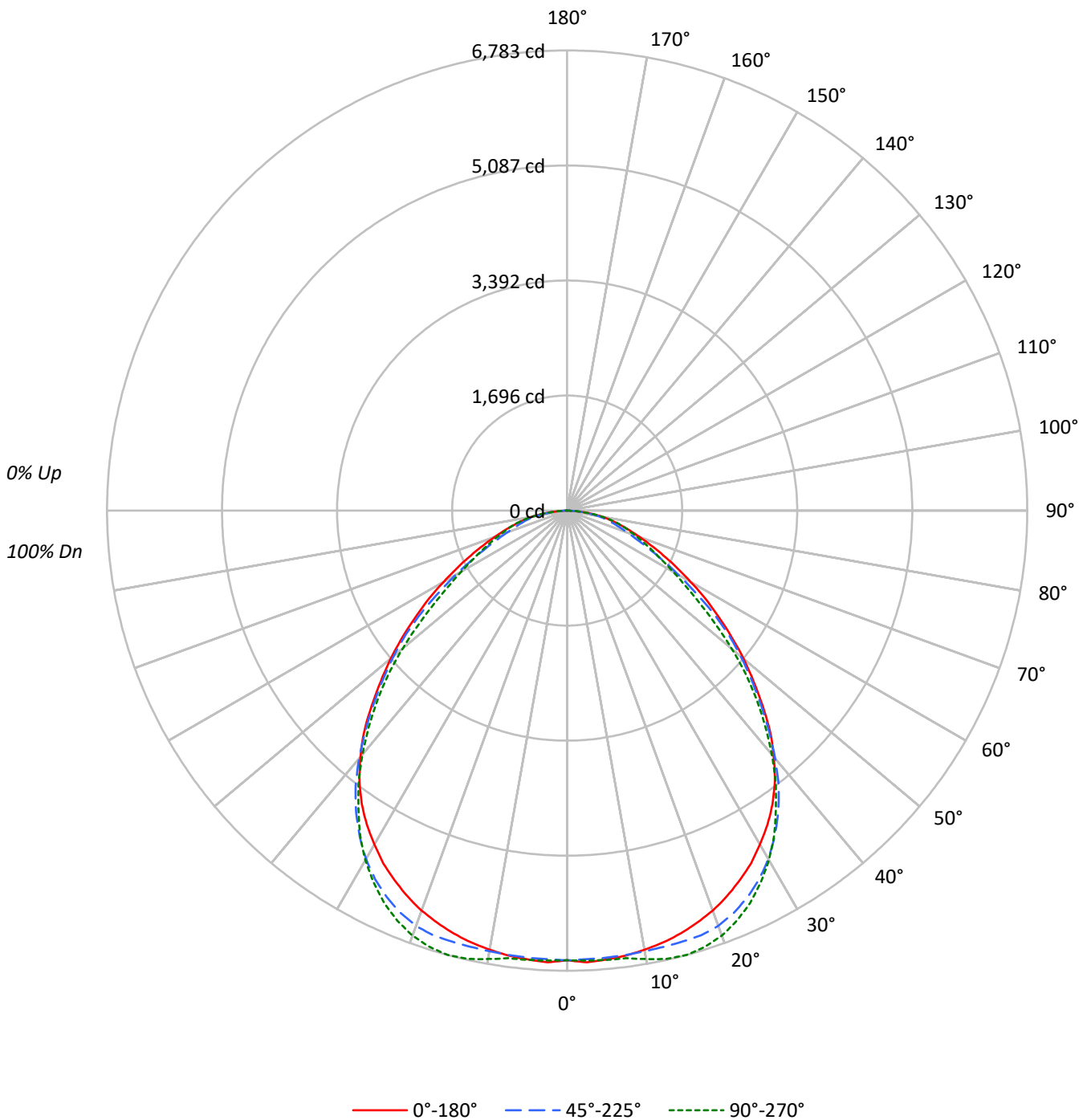
Lumens per Lamp: N/A
Luminaire Lumens: 16532.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
Input Voltage (V): NR
Input Current (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	8919	8919	8919
5°	8972	8935	8979
10°	8980	9010	9171
15°	8991	9160	9448
20°	8985	9327	9545
25°	8930	9336	9473
30°	8827	9212	9242
35°	8669	8914	8807
40°	8327	8379	8247
45°	7759	7678	7522
50°	7104	6990	6632
55°	6381	6145	5607
60°	5659	5084	4840
65°	4986	4224	4393
70°	4460	3666	4184
75°	4178	3564	4231
80°	4067	3604	4028
85°	3247	2851	2956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.5	3.8
10°-20°	1860.0	11.3
20°-30°	2861.4	17.3
30°-40°	3339.4	20.2
40°-50°	3103.2	18.8
50°-60°	2300.2	13.9
60°-70°	1406.2	8.5
70°-80°	800.9	4.8
80°-90°	229.1	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
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0°-30°	5352.9	32.4
0°-40°	8692.4	52.6
0°-60°	14095.8	85.3
0°-90°	16532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6629	6629	6629	6629	6629	
5°	6642	6612	6615	6610	6648	632
15°	6454	6451	6576	6706	6783	1822
25°	6015	6061	6289	6342	6381	2771
35°	5278	5319	5427	5382	5362	3289
45°	4078	4102	4035	3972	3953	3142
55°	2720	2652	2619	2433	2390	2441
65°	1566	1422	1327	1363	1380	1567
75°	804	754	686	781	814	860
85°	210	205	185	192	192	242
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6628.9	6628.9	6628.9	6628.9	6628.9
2.5°	6664.8	6627.1	6620.3	6604.9	6639.1
5°	6642.5	6611.8	6615.2	6610.0	6647.7
7.5°	6616.9	6594.7	6608.3	6606.6	6656.2
10°	6572.4	6560.5	6594.7	6632.3	6712.6
12.5°	6522.8	6510.9	6586.1	6681.9	6769.1
15°	6454.5	6451.0	6575.9	6705.8	6782.7
17.5°	6369.0	6374.1	6563.9	6675.0	6743.4
20°	6274.9	6283.5	6514.3	6604.9	6666.5
22.5°	6153.5	6182.6	6418.6	6493.8	6541.7
25°	6015.0	6061.2	6288.6	6341.6	6380.9
27.5°	5866.3	5912.5	6127.9	6155.2	6177.5
30°	5681.6	5746.6	5929.6	5933.0	5948.4
32.5°	5493.6	5551.7	5691.9	5676.5	5679.9
35°	5278.1	5319.2	5426.9	5382.4	5361.9
37.5°	5030.2	5052.4	5120.8	5054.1	5050.7
40°	4741.2	4770.3	4770.3	4678.0	4695.1
42.5°	4433.5	4443.7	4401.0	4313.8	4327.5
45°	4077.8	4101.8	4035.1	3971.8	3953.0
47.5°	3725.6	3749.6	3679.5	3605.9	3573.5
50°	3393.9	3382.0	3339.2	3214.4	3168.2
52.5°	3050.3	3012.6	2995.6	2812.6	2759.6
55°	2720.3	2651.9	2619.4	2433.0	2390.3
57.5°	2414.2	2291.1	2229.6	2084.2	2067.1
60°	2103.0	1964.5	1889.3	1795.3	1798.7
62.5°	1820.9	1675.6	1585.0	1557.6	1569.6
65°	1566.2	1422.5	1326.8	1362.7	1379.8
67.5°	1335.3	1217.4	1109.7	1193.4	1210.5
70°	1133.6	1039.6	931.8	1054.9	1063.5
72.5°	966.0	889.1	798.5	914.7	933.5
75°	803.6	754.0	685.6	781.4	813.9
77.5°	661.7	622.4	583.0	641.2	677.1
80°	524.9	485.6	465.1	495.8	519.8
82.5°	371.0	345.4	324.9	347.1	359.1
85°	210.3	205.2	184.7	191.5	191.5
87.5°	47.9	54.7	61.6	56.4	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)