

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-FLI-UNV-L835-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 (P26703)
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-FLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

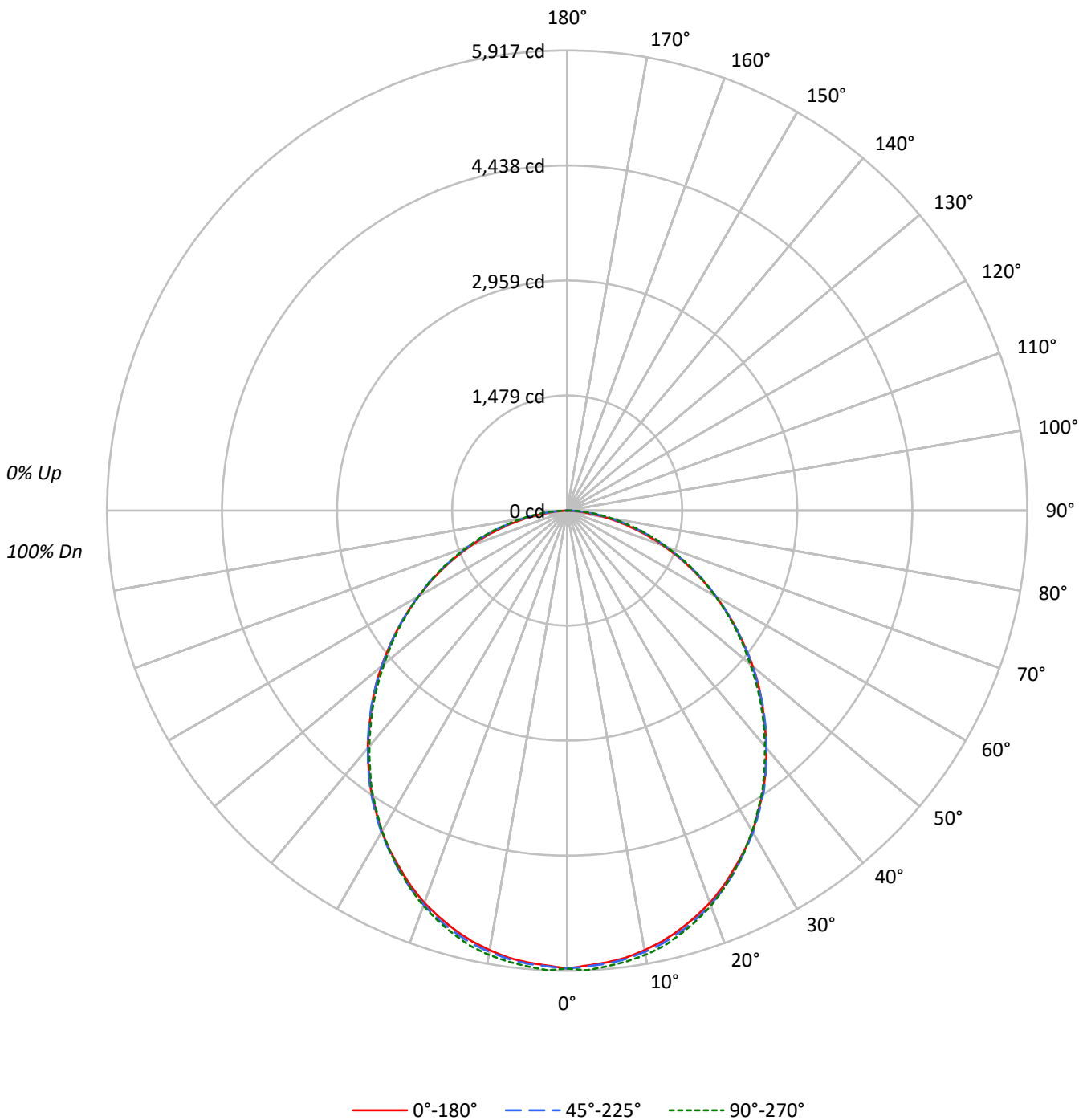
Lumens per Lamp: N/A
Luminaire Lumens: 15381.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7923	7923	7923
5°	7878	7900	7945
10°	7842	7873	7925
15°	7773	7815	7853
20°	7685	7722	7744
25°	7543	7585	7574
30°	7404	7423	7393
35°	7220	7239	7193
40°	7003	7003	6949
45°	6758	6777	6708
50°	6526	6515	6433
55°	6244	6244	6188
60°	5941	5948	5925
65°	5599	5656	5670
70°	5172	5314	5319
75°	4571	4866	4942
80°	3749	4262	4503
85°	2601	3578	4046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.9	3.6
10°-20°	1584.2	10.3
20°-30°	2354.3	15.3
30°-40°	2752.7	17.9
40°-50°	2744.5	17.8
50°-60°	2381.3	15.5
60°-70°	1758.8	11.4
70°-80°	984.7	6.4
80°-90°	262.8	1.7
90°-100°	0.8	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°	4495.3	29.2
0°-40°	7248.1	47.1
0°-60°	12373.9	80.4
0°-90°	15380.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	15381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5888	5888	5888	5888	5888	
5°	5832	5869	5849	5875	5882	554
15°	5580	5619	5610	5637	5638	1574
25°	5081	5121	5109	5121	5102	2342
35°	4396	4434	4407	4406	4379	2746
45°	3552	3590	3561	3547	3525	2742
55°	2662	2680	2662	2658	2638	2380
65°	1759	1776	1776	1785	1781	1739
75°	879	905	936	943	951	936
85°	168	204	232	252	262	205
90°	0	4	4	10	9	7
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-FLI-UNV-L835-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5888.3	5888.3	5888.3	5888.3	5888.3
2.5°	5856.1	5890.9	5866.6	5889.8	5916.7
5°	5832.5	5869.2	5849.0	5874.8	5882.3
7.5°	5798.0	5833.6	5814.1	5840.0	5847.8
10°	5739.6	5778.2	5762.8	5792.0	5800.3
12.5°	5671.5	5707.8	5697.7	5731.8	5737.4
15°	5580.1	5619.0	5610.4	5637.4	5637.8
17.5°	5479.0	5515.7	5509.3	5530.3	5529.6
20°	5367.0	5406.4	5392.9	5415.7	5408.6
22.5°	5234.5	5276.4	5259.6	5278.7	5260.7
25°	5080.6	5121.4	5109.4	5120.7	5101.9
27.5°	4931.6	4969.0	4944.3	4957.8	4937.9
30°	4765.3	4797.1	4778.0	4782.5	4758.6
32.5°	4578.4	4616.3	4593.0	4592.3	4566.8
35°	4395.7	4434.3	4406.9	4406.2	4378.9
37.5°	4193.5	4229.5	4197.2	4199.1	4167.3
40°	3987.2	4018.3	3987.2	3985.7	3956.5
42.5°	3763.3	3804.4	3776.0	3779.4	3740.4
45°	3551.7	3589.5	3561.4	3546.8	3525.1
47.5°	3340.9	3357.4	3334.1	3330.4	3299.7
50°	3117.7	3130.1	3112.5	3108.0	3073.5
52.5°	2887.0	2908.4	2885.9	2879.9	2857.1
55°	2661.6	2680.0	2662.0	2657.5	2638.0
57.5°	2434.7	2458.7	2440.3	2435.8	2420.1
60°	2207.8	2214.9	2210.4	2217.1	2201.8
62.5°	1982.4	1998.8	2004.1	2002.2	1990.2
65°	1758.8	1776.0	1776.4	1785.4	1780.9
67.5°	1530.0	1552.5	1558.8	1568.2	1572.3
70°	1314.7	1331.9	1350.7	1356.3	1352.2
72.5°	1097.9	1125.6	1146.6	1151.4	1169.0
75°	879.2	905.4	936.1	942.9	950.7
77.5°	676.3	711.1	738.8	747.8	757.5
80°	483.8	522.4	550.1	562.4	581.2
82.5°	317.5	356.9	384.9	397.3	420.1
85°	168.5	203.7	231.8	252.4	262.1
87.5°	49.8	79.8	95.9	101.9	110.5
90°	0.0	3.7	4.5	10.1	9.4
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)