

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-CLWG-UNV-L740-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLWG-UNV-L740-ED2-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: 16845.0 lumens
Efficiency: N/A
Efficacy: 150.5 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

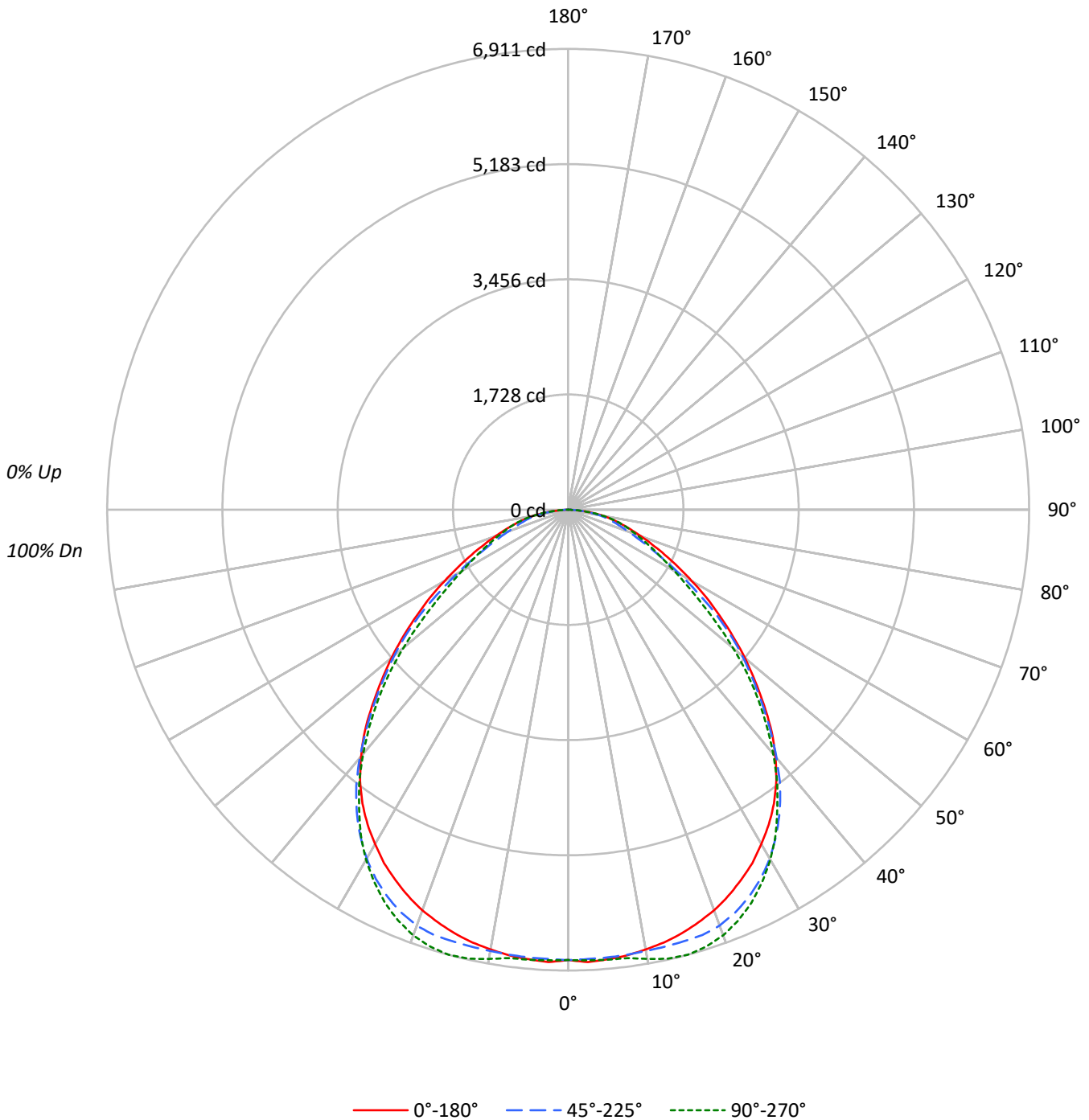
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9088	9088	9088
5°	9141	9104	9148
10°	9150	9180	9345
15°	9161	9333	9627
20°	9155	9504	9726
25°	9099	9513	9652
30°	8994	9387	9417
35°	8834	9083	8974
40°	8485	8537	8403
45°	7906	7823	7664
50°	7239	7122	6757
55°	6502	6261	5713
60°	5766	5180	4932
65°	5081	4304	4476
70°	4544	3735	4263
75°	4257	3632	4311
80°	4144	3672	4104
85°	3308	2905	3012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.4	3.8
10°-20°	1895.2	11.3
20°-30°	2915.6	17.3
30°-40°	3402.7	20.2
40°-50°	3162.0	18.8
50°-60°	2343.8	13.9
60°-70°	1432.8	8.5
70°-80°	816.1	4.8
80°-90°	233.4	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°	5454.3	32.4
0°-40°	8856.9	52.6
0°-60°	14362.7	85.3
0°-90°	16845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6754	6754	6754	6754	6754	
5°	6768	6737	6740	6735	6774	644
15°	6577	6573	6700	6833	6911	1856
25°	6129	6176	6408	6462	6502	2823
35°	5378	5420	5530	5484	5463	3351
45°	4155	4179	4112	4047	4028	3202
55°	2772	2702	2669	2479	2436	2487
65°	1596	1450	1352	1388	1406	1597
75°	819	768	699	796	829	876
85°	214	209	188	195	195	247
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6754.4	6754.4	6754.4	6754.4	6754.4
2.5°	6790.9	6752.6	6745.6	6730.0	6764.8
5°	6768.3	6736.9	6740.4	6735.2	6773.5
7.5°	6742.2	6719.5	6733.5	6731.7	6782.2
10°	6696.9	6684.7	6719.5	6757.8	6839.7
12.5°	6646.3	6634.2	6710.8	6808.4	6897.2
15°	6576.7	6573.2	6700.4	6832.8	6911.2
17.5°	6489.6	6494.8	6688.2	6801.4	6871.1
20°	6393.7	6402.4	6637.6	6730.0	6792.7
22.5°	6270.0	6299.7	6540.1	6616.7	6665.5
25°	6128.9	6176.0	6407.7	6461.7	6501.7
27.5°	5977.4	6024.4	6243.9	6271.8	6294.4
30°	5789.2	5855.4	6041.8	6045.3	6061.0
32.5°	5597.6	5656.8	5799.7	5784.0	5787.5
35°	5378.1	5419.9	5529.6	5484.3	5463.4
37.5°	5125.4	5148.1	5217.8	5149.8	5146.3
40°	4831.0	4860.6	4860.6	4766.6	4784.0
42.5°	4517.4	4527.9	4484.3	4395.5	4409.4
45°	4155.1	4179.4	4111.5	4047.0	4027.9
47.5°	3796.2	3820.6	3749.1	3674.2	3641.1
50°	3458.2	3446.0	3402.4	3275.3	3228.2
52.5°	3108.0	3069.7	3052.3	2865.9	2811.8
55°	2771.8	2702.1	2669.0	2479.1	2435.5
57.5°	2459.9	2334.5	2271.8	2123.7	2106.3
60°	2142.9	2001.7	1925.1	1829.3	1832.8
62.5°	1855.4	1707.3	1615.0	1587.1	1599.3
65°	1595.8	1449.5	1351.9	1388.5	1405.9
67.5°	1360.6	1240.4	1130.7	1216.0	1233.5
70°	1155.1	1059.2	949.5	1074.9	1083.6
72.5°	984.3	905.9	813.6	932.1	951.2
75°	818.8	768.3	698.6	796.2	829.3
77.5°	674.2	634.1	594.1	653.3	689.9
80°	534.8	494.8	473.9	505.2	529.6
82.5°	378.0	351.9	331.0	353.7	365.9
85°	214.3	209.1	188.2	195.1	195.1
87.5°	48.8	55.7	62.7	57.5	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)