

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-UNV-L735-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

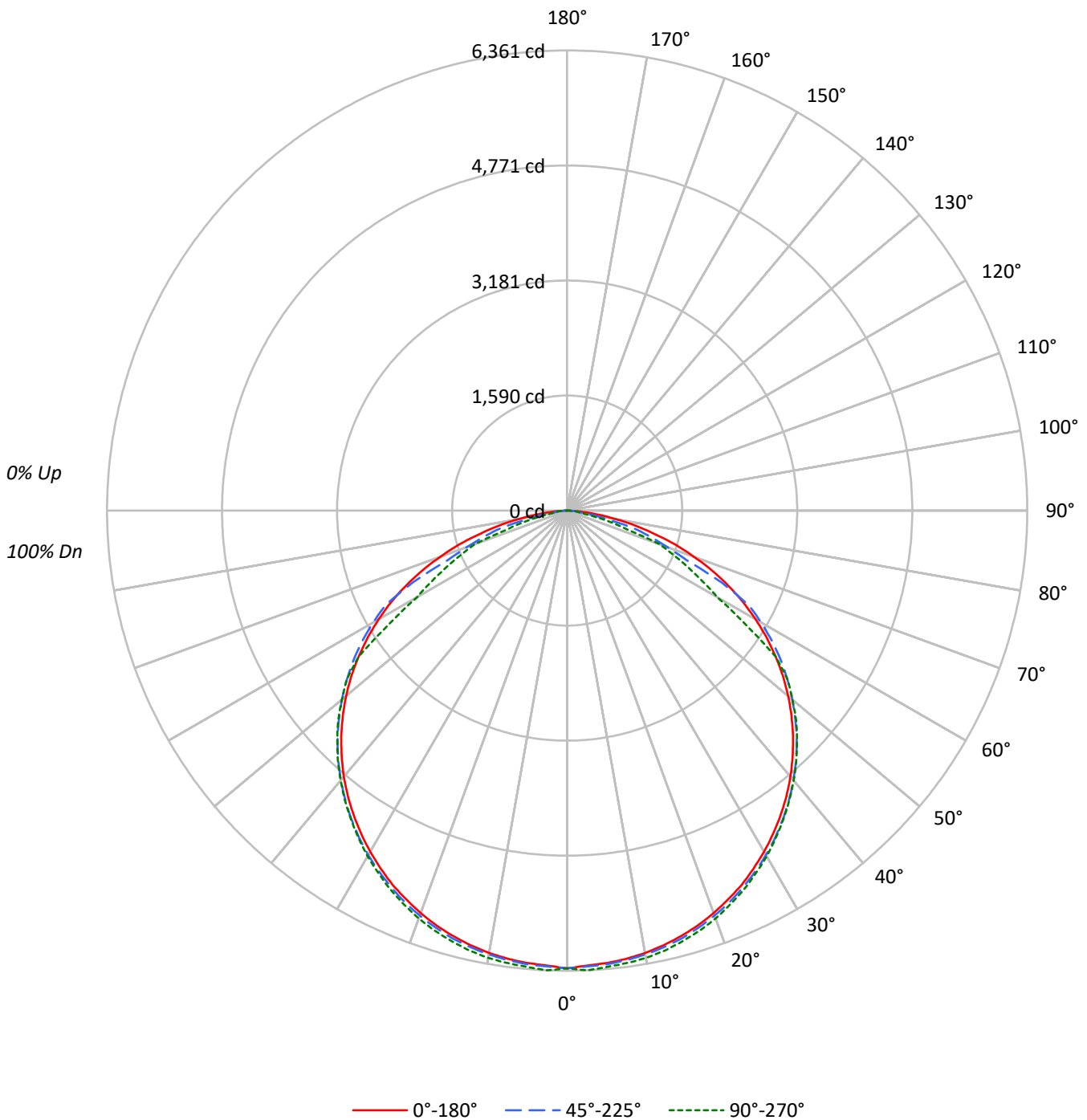
Lumens per Lamp: N/A
Luminaire Lumens: 18268.0 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8514	8514	8514
5°	8479	8502	8551
10°	8484	8514	8578
15°	8482	8527	8586
20°	8477	8531	8591
25°	8474	8535	8582
30°	8459	8542	8574
35°	8449	8546	8557
40°	8433	8545	8559
45°	8401	8542	8552
50°	8351	8505	8504
55°	8254	8460	8250
60°	8101	8336	6455
65°	7830	7502	5816
70°	7336	5772	5360
75°	6496	5032	3341
80°	5349	2963	1493
85°	3526	1815	1956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.5	3.3
10°-20°	1732.4	9.5
20°-30°	2656.1	14.5
30°-40°	3257.4	17.8
40°-50°	3458.8	18.9
50°-60°	3159.2	17.3
60°-70°	2200.1	12.0
70°-80°	1026.1	5.6
80°-90°	177.5	1.0
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°	4989.0	27.3
0°-40°	8246.3	45.1
0°-60°	14864.3	81.4
0°-90°	18268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6328	6328	6328	6328	6328	
5°	6278	6322	6295	6326	6331	597
15°	6089	6131	6122	6159	6164	1719
25°	5708	5758	5749	5792	5781	2630
35°	5144	5203	5203	5238	5210	3219
45°	4415	4482	4489	4518	4494	3405
55°	3519	3589	3607	3613	3517	3142
65°	2460	2535	2356	1874	1827	2427
75°	1250	1328	968	671	643	1336
85°	228	150	118	126	127	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6327.9	6327.9	6327.9	6327.9	6327.9
2.5°	6294.5	6334.7	6308.1	6337.0	6361.2
5°	6277.8	6321.8	6295.2	6325.6	6330.9
7.5°	6250.5	6292.2	6267.9	6301.3	6309.7
10°	6209.5	6250.5	6231.5	6271.0	6278.6
12.5°	6154.1	6195.9	6181.5	6224.7	6230.0
15°	6088.9	6131.4	6121.5	6158.7	6164.0
17.5°	6012.3	6056.3	6044.9	6084.3	6088.1
20°	5920.5	5968.3	5958.4	6004.7	6000.1
22.5°	5817.3	5868.1	5860.5	5906.8	5893.2
25°	5708.1	5758.1	5749.0	5791.5	5780.9
27.5°	5579.8	5635.2	5626.9	5667.8	5651.2
30°	5444.8	5500.9	5497.9	5535.1	5518.4
32.5°	5299.1	5359.1	5356.0	5392.5	5366.7
35°	5143.6	5202.8	5202.8	5237.7	5209.6
37.5°	4979.0	5038.9	5039.7	5073.1	5046.5
40°	4801.5	4861.4	4865.2	4897.1	4872.8
42.5°	4614.8	4680.1	4683.1	4712.0	4689.2
45°	4415.3	4482.1	4488.9	4517.7	4494.2
47.5°	4206.7	4274.2	4280.3	4311.4	4294.7
50°	3989.7	4055.0	4063.3	4089.1	4062.6
52.5°	3760.6	3827.4	3838.8	3854.7	3842.5
55°	3518.6	3589.2	3606.6	3612.7	3517.1
57.5°	3268.2	3340.3	3357.0	3217.4	2910.2
60°	3010.3	3081.6	3097.6	2617.3	2398.8
62.5°	2741.7	2811.5	2829.0	2169.0	2099.2
65°	2459.5	2535.4	2356.4	1873.9	1826.8
67.5°	2169.7	2247.9	1782.1	1606.1	1578.0
70°	1864.8	1943.7	1467.2	1369.4	1362.5
72.5°	1571.9	1630.3	1204.0	1037.8	874.0
75°	1249.5	1328.4	968.0	670.6	642.6
77.5°	968.8	837.5	584.2	491.6	387.7
80°	690.4	559.9	382.4	204.1	192.7
82.5°	437.7	365.7	150.2	154.0	160.8
85°	228.4	150.2	117.6	125.9	126.7
87.5°	73.6	64.5	70.6	69.8	69.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)