

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-L835-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-L835-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

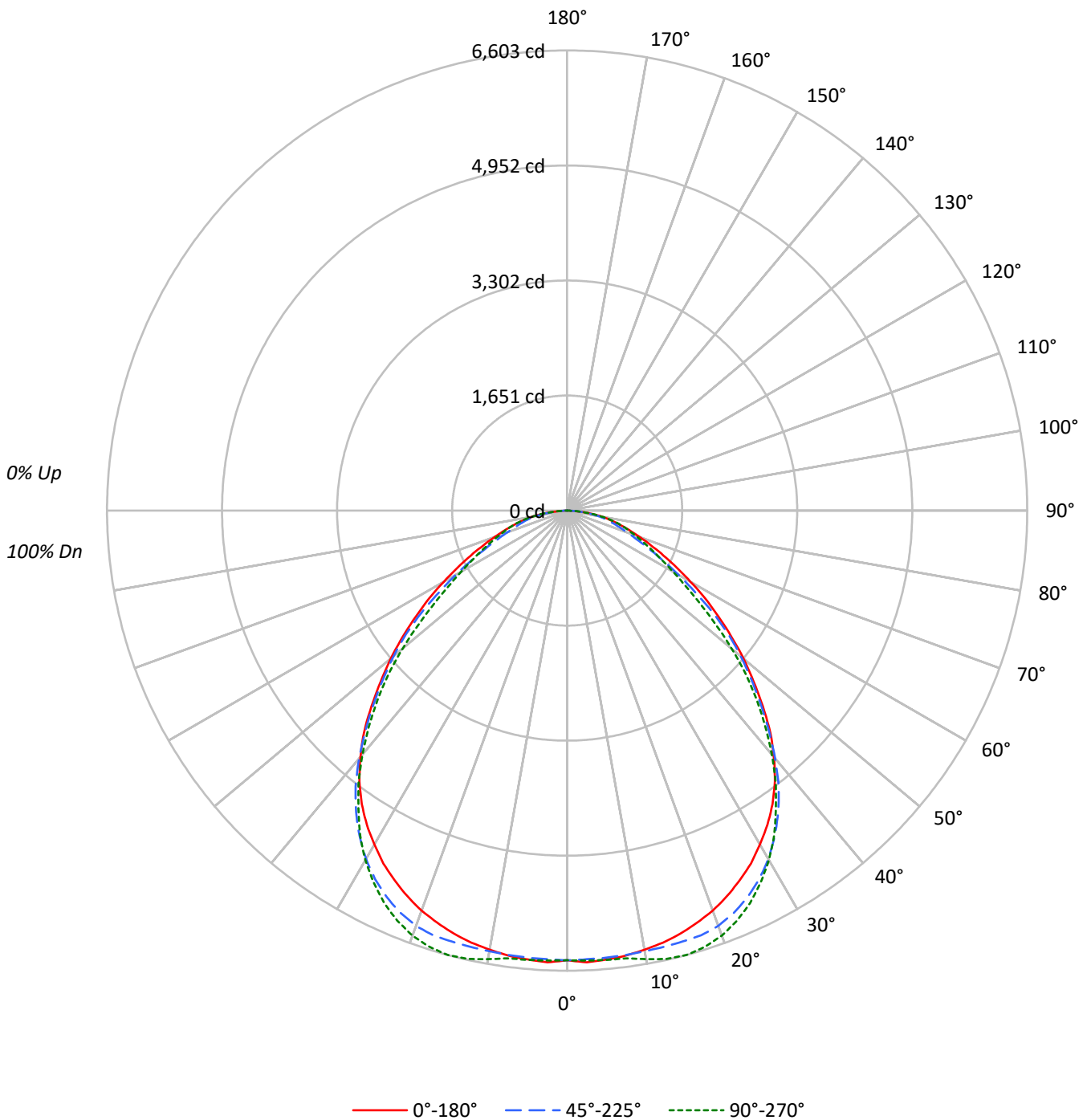
Lumens per Lamp: N/A
Luminaire Lumens: 16094.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48					48			
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8683	8683	8683
5°	8734	8698	8741
10°	8742	8771	8928
15°	8753	8917	9198
20°	8747	9080	9292
25°	8693	9089	9222
30°	8593	8968	8997
35°	8440	8678	8574
40°	8107	8157	8028
45°	7554	7475	7323
50°	6916	6805	6456
55°	6212	5982	5459
60°	5509	4950	4712
65°	4854	4112	4276
70°	4342	3568	4073
75°	4067	3470	4119
80°	3959	3508	3921
85°	3160	2776	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.7	3.8
10°-20°	1810.7	11.3
20°-30°	2785.6	17.3
30°-40°	3251.0	20.2
40°-50°	3021.0	18.8
50°-60°	2239.3	13.9
60°-70°	1368.9	8.5
70°-80°	779.7	4.8
80°-90°	223.0	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
0°-30°	5211.1	32.4
0°-40°	8462.1	52.6
0°-60°	13722.4	85.3
0°-90°	16094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6453	6453	6453	6453	6453	
5°	6466	6437	6440	6435	6472	615
15°	6284	6280	6402	6528	6603	1774
25°	5856	5901	6122	6174	6212	2697
35°	5138	5178	5283	5240	5220	3202
45°	3970	3993	3928	3867	3848	3059
55°	2648	2582	2550	2369	2327	2377
65°	1525	1385	1292	1327	1343	1526
75°	782	734	668	761	792	837
85°	205	200	180	186	186	236
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6453.2	6453.2	6453.2	6453.2	6453.2
2.5°	6488.2	6451.6	6444.9	6429.9	6463.2
5°	6466.5	6436.6	6439.9	6434.9	6471.5
7.5°	6441.6	6419.9	6433.3	6431.6	6479.9
10°	6398.3	6386.7	6419.9	6456.6	6534.8
12.5°	6350.0	6338.4	6411.6	6504.8	6589.7
15°	6283.5	6280.1	6401.6	6528.1	6603.0
17.5°	6200.2	6205.2	6390.0	6498.2	6564.8
20°	6108.7	6117.0	6341.7	6429.9	6489.8
22.5°	5990.5	6018.8	6248.5	6321.7	6368.3
25°	5855.7	5900.6	6122.0	6173.6	6211.9
27.5°	5710.9	5755.8	5965.5	5992.2	6013.8
30°	5531.1	5594.4	5772.5	5775.8	5790.8
32.5°	5348.0	5404.6	5541.1	5526.1	5529.4
35°	5138.3	5178.2	5283.1	5239.8	5219.8
37.5°	4896.9	4918.6	4985.1	4920.2	4916.9
40°	4615.6	4643.9	4643.9	4554.0	4570.7
42.5°	4316.0	4326.0	4284.4	4199.5	4212.8
45°	3969.8	3993.1	3928.2	3866.6	3848.3
47.5°	3626.9	3650.2	3582.0	3510.4	3478.8
50°	3304.0	3292.4	3250.8	3129.2	3084.3
52.5°	2969.5	2932.8	2916.2	2738.1	2686.5
55°	2648.2	2581.6	2550.0	2368.6	2327.0
57.5°	2350.3	2230.4	2170.5	2029.0	2012.4
60°	2047.3	1912.5	1839.3	1747.7	1751.0
62.5°	1772.7	1631.2	1543.0	1516.4	1528.0
65°	1524.7	1384.9	1291.6	1326.6	1343.2
67.5°	1300.0	1185.1	1080.3	1161.8	1178.5
70°	1103.6	1012.0	907.1	1027.0	1035.3
72.5°	940.4	865.5	777.3	890.5	908.8
75°	782.3	734.0	667.5	760.7	792.3
77.5°	644.2	605.9	567.6	624.2	659.1
80°	511.0	472.7	452.7	482.7	506.0
82.5°	361.2	336.2	316.3	337.9	349.5
85°	204.7	199.7	179.8	186.4	186.4
87.5°	46.6	53.3	59.9	54.9	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)