

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-AI-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 (P23765)
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-AI-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

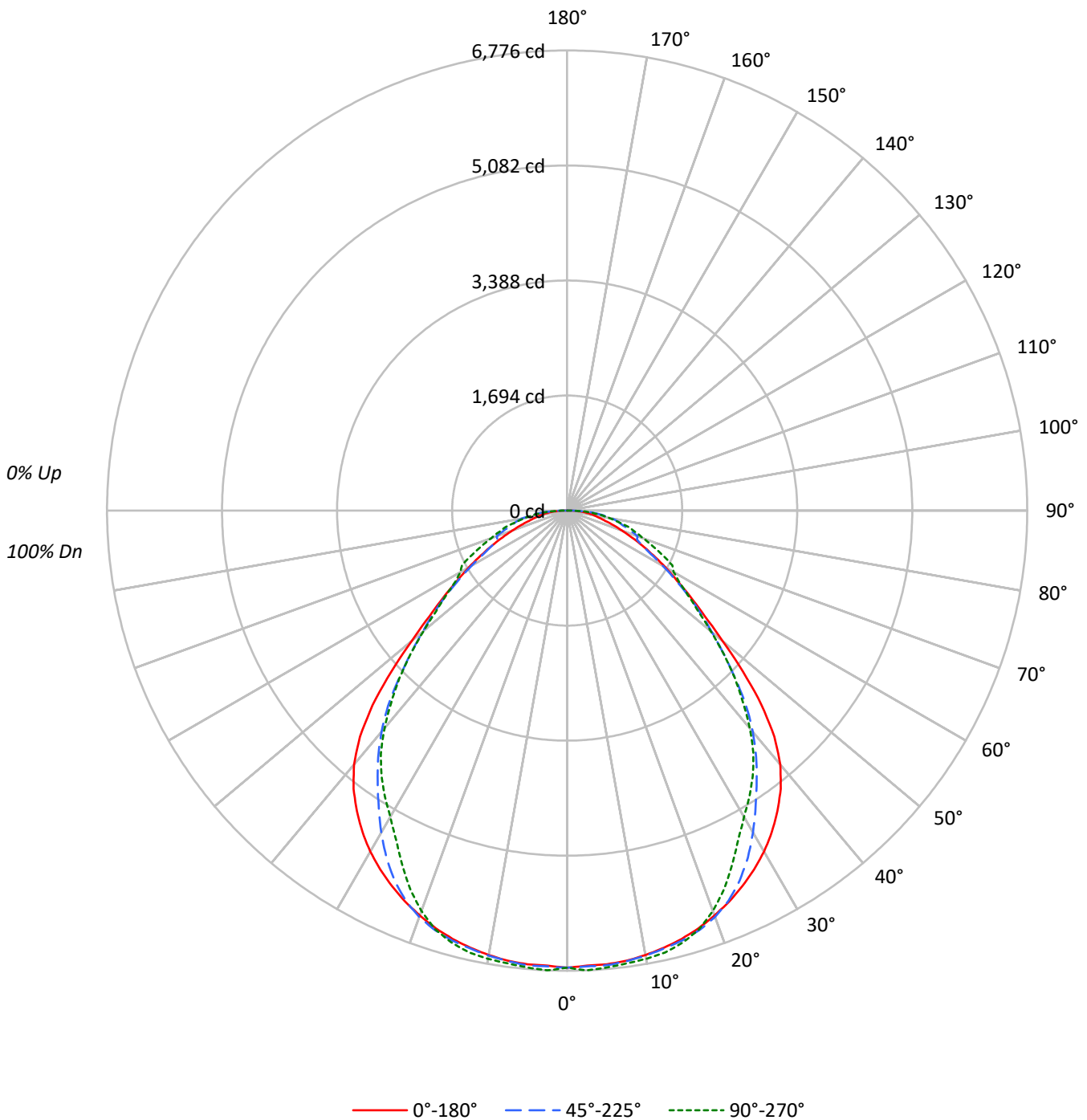
Lumens per Lamp: N/A
Luminaire Lumens: 15580.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9056	9056	9056
5°	9056	9076	9120
10°	9079	9090	9157
15°	9093	9126	9171
20°	9083	9117	8982
25°	9060	8925	8537
30°	9007	8504	8089
35°	8871	7992	7826
40°	8575	7473	7350
45°	7707	6673	6648
50°	6251	5812	5772
55°	5191	5094	5092
60°	4494	4363	4877
65°	3895	3870	4916
70°	3358	4342	4687
75°	3012	4450	4886
80°	3130	5239	4902
85°	3554	6036	5601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.9	4.1
10°-20°	1850.9	11.9
20°-30°	2749.0	17.6
30°-40°	3120.9	20.0
40°-50°	2790.0	17.9
50°-60°	1929.0	12.4
60°-70°	1272.8	8.2
70°-80°	858.7	5.5
80°-90°	367.8	2.4
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°	5240.8	33.6
0°-40°	8361.7	53.7
0°-60°	13080.6	84.0
0°-90°	15580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6731	6731	6731	6731	6731	
5°	6705	6746	6720	6747	6752	638
15°	6528	6559	6552	6588	6584	1843
25°	6103	6161	6012	5832	5750	2812
35°	5401	5287	4866	4795	4765	3368
45°	4050	3707	3507	3534	3494	3080
55°	2213	2020	2172	2141	2171	2010
65°	1223	1086	1216	1422	1544	1221
75°	579	729	856	915	940	633
85°	230	320	391	393	363	240
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6731.0	6731.0	6731.0	6731.0	6731.0
2.5°	6708.2	6750.1	6718.8	6747.8	6776.0
5°	6705.1	6746.3	6719.6	6747.0	6752.4
7.5°	6686.1	6724.2	6692.9	6719.6	6725.7
10°	6644.9	6689.9	6653.3	6694.5	6702.1
12.5°	6591.6	6637.3	6605.3	6661.7	6664.7
15°	6527.5	6558.8	6551.9	6588.5	6583.9
17.5°	6446.7	6482.6	6477.2	6486.4	6465.0
20°	6343.8	6384.2	6367.5	6325.5	6273.0
22.5°	6233.3	6282.1	6215.8	6109.8	6035.9
25°	6103.0	6160.9	6011.5	5832.4	5750.1
27.5°	5958.9	6010.8	5762.3	5542.8	5457.4
30°	5797.3	5819.4	5473.4	5264.6	5206.6
32.5°	5610.6	5578.6	5164.7	5026.7	4993.2
35°	5401.0	5287.4	4865.9	4795.0	4764.6
37.5°	5164.7	4956.6	4570.9	4538.2	4506.2
40°	4881.9	4574.8	4254.6	4233.3	4184.5
42.5°	4516.8	4159.4	3903.3	3878.1	3834.7
45°	4050.4	3707.4	3506.9	3533.6	3494.0
47.5°	3513.8	3253.9	3126.6	3199.7	3126.6
50°	2986.3	2811.8	2776.7	2843.0	2757.7
52.5°	2554.2	2397.1	2469.5	2481.0	2429.9
55°	2212.7	2019.8	2171.5	2141.0	2170.8
57.5°	1915.4	1699.7	1886.5	1851.4	1953.5
60°	1670.0	1427.6	1621.2	1613.6	1812.5
62.5°	1429.1	1235.5	1391.0	1503.1	1747.7
65°	1223.3	1086.1	1215.7	1421.5	1544.2
67.5°	1025.9	974.1	1112.1	1226.4	1360.5
70°	853.7	880.3	1103.7	1082.3	1191.3
72.5°	708.9	799.6	974.1	977.9	1054.9
75°	579.3	728.7	856.0	914.6	939.8
77.5°	481.7	660.8	772.9	793.5	769.1
80°	404.0	582.3	676.1	666.9	632.6
82.5°	326.2	441.3	532.8	541.2	500.8
85°	230.2	320.1	391.0	393.3	362.8
87.5°	123.5	197.4	237.0	243.9	225.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)