

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-CL-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 (P23762)
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-CL-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

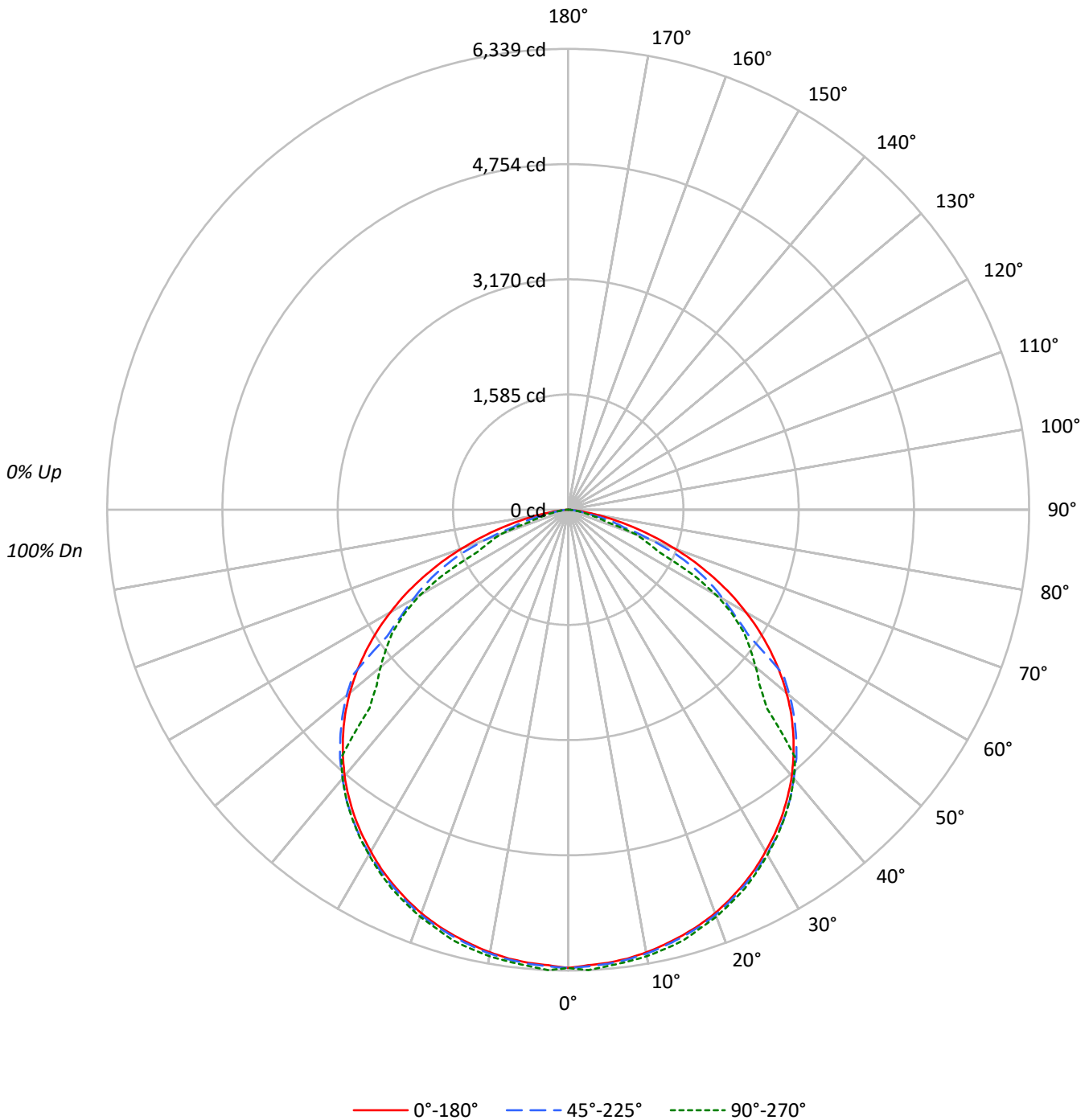
Lumens per Lamp: N/A
Luminaire Lumens: 17038.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8480	8480	8480
5°	8449	8467	8509
10°	8448	8472	8521
15°	8447	8473	8541
20°	8458	8490	8529
25°	8448	8480	8531
30°	8432	8494	8513
35°	8428	8505	8512
40°	8402	8476	8476
45°	8330	8431	7346
50°	8201	8325	7048
55°	7969	7127	6923
60°	7595	6624	6325
65°	7024	6149	4380
70°	6116	4785	3903
75°	4831	3211	2098
80°	3109	1534	1308
85°	1280	936	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.8	3.5
10°-20°	1723.2	10.1
20°-30°	2641.8	15.5
30°-40°	3238.0	19.0
40°-50°	3328.9	19.5
50°-60°	2841.1	16.7
60°-70°	1878.3	11.0
70°-80°	695.9	4.1
80°-90°	93.1	0.5
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°	4962.8	29.1
0°-40°	8200.8	48.1
0°-60°	14370.8	84.3
0°-90°	17038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6302	6302	6302	6302	6302	
5°	6256	6299	6269	6294	6300	595
15°	6064	6101	6083	6129	6132	1713
25°	5691	5721	5712	5764	5747	2624
35°	5131	5167	5178	5210	5182	3210
45°	4378	4422	4431	4424	3861	3374
55°	3397	3459	3038	2950	2951	3031
65°	2206	2225	1931	1588	1376	2175
75°	929	814	618	415	404	997
85°	83	59	61	66	67	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6302.3	6302.3	6302.3	6302.3	6302.3
2.5°	6271.6	6310.7	6287.7	6316.9	6339.1
5°	6255.5	6299.2	6269.3	6293.9	6300.0
7.5°	6227.9	6268.5	6240.9	6273.1	6268.5
10°	6183.4	6220.2	6201.0	6234.8	6237.1
12.5°	6126.6	6163.4	6145.8	6187.2	6186.4
15°	6064.4	6101.2	6082.8	6128.9	6131.9
17.5°	5991.5	6025.3	6011.5	6053.7	6036.8
20°	5907.1	5936.3	5929.4	5969.3	5957.0
22.5°	5803.5	5833.4	5826.5	5872.6	5854.2
25°	5690.7	5720.6	5712.2	5763.6	5746.7
27.5°	5568.7	5597.1	5596.3	5644.7	5618.6
30°	5427.5	5465.1	5467.4	5510.4	5479.7
32.5°	5287.8	5323.1	5333.1	5364.6	5338.5
35°	5131.3	5166.6	5178.1	5210.3	5182.0
37.5°	4962.5	4992.4	5013.1	5036.9	5014.7
40°	4783.7	4810.6	4825.9	4855.1	4825.9
42.5°	4584.2	4622.6	4644.0	4664.8	4617.2
45°	4377.8	4421.5	4430.7	4423.8	3860.6
47.5°	4159.1	4206.6	4212.0	3673.3	3569.7
50°	3918.1	3978.0	3977.2	3394.8	3367.2
52.5°	3667.2	3724.7	3722.4	3176.9	3158.4
55°	3397.1	3459.2	3038.0	2949.7	2951.2
57.5°	3121.6	3166.1	2725.6	2729.5	2678.8
60°	2822.3	2864.5	2461.7	2437.9	2350.4
62.5°	2522.3	2539.9	2206.1	2090.3	1923.8
65°	2206.1	2224.6	1931.4	1588.4	1375.9
67.5°	1881.6	1900.0	1603.0	1181.7	1165.6
70°	1554.7	1404.3	1216.3	984.5	992.2
72.5°	1232.4	1078.9	795.0	762.8	551.0
75°	929.3	814.2	617.7	415.1	403.6
77.5°	646.9	560.9	330.7	283.2	264.7
80°	401.3	281.6	198.0	175.7	168.8
82.5°	203.3	161.9	107.4	107.4	107.4
85°	82.9	59.1	60.6	66.0	66.8
87.5°	17.6	23.8	29.2	29.9	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)