

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-LD5-12HE-N-UNV-L835-ED1-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

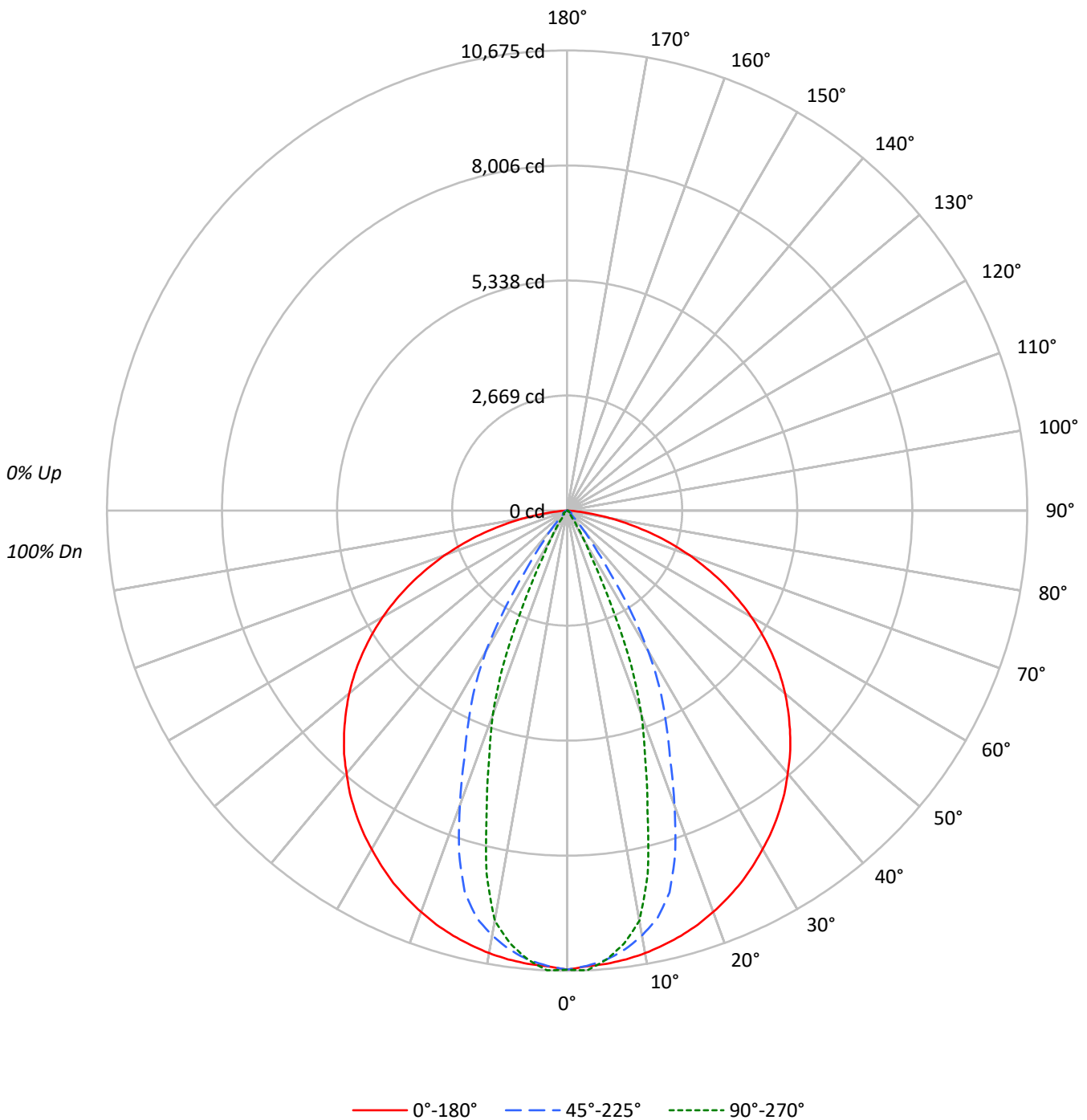
Lumens per Lamp: N/A
Luminaire Lumens: 11319.0 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14329	14329	14329
5°	14252	14126	14120
10°	14243	13674	13194
15°	14223	12774	10041
20°	14190	10414	7228
25°	14154	8052	3560
30°	14091	5852	1155
35°	14058	2596	297
40°	13984	1054	200
45°	13922	296	213
50°	13813	210	237
55°	13614	250	101
60°	13278	278	61
65°	12732	177	73
70°	11828	157	90
75°	10348	119	124
80°	7737	145	177
85°	3832	188	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.3	8.7
10°-20°	2471.2	21.8
20°-30°	2676.7	23.6
30°-40°	1982.2	17.5
40°-50°	1427.7	12.6
50°-60°	884.0	7.8
60°-70°	543.7	4.8
70°-80°	286.6	2.5
80°-90°	58.7	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°	6136.2	54.2
0°-40°	8118.4	71.7
0°-60°	10430.1	92.1
0°-90°	11319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10649	10649	10649	10649	10649	
5°	10552	10591	10459	10466	10454	###
15°	10211	9974	9171	7799	7208	2882
25°	9534	8733	5424	3412	2398	4393
35°	8559	6034	1581	372	181	5354
45°	7316	3399	156	112	112	5642
55°	5804	700	106	96	43	5181
65°	3999	74	56	36	23	3946
75°	1990	17	23	30	24	2102
85°	248	7	12	18	15	375
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10649.4	10649.4	10649.4	10649.4	10649.4
2.5°	10581.0	10648.4	10568.9	10628.2	10675.3
5°	10552.2	10591.2	10458.9	10466.5	10454.4
7.5°	10501.5	10492.4	10270.0	10172.7	10130.2
10°	10425.0	10364.7	10008.1	9804.9	9657.0
12.5°	10326.2	10191.5	9681.3	9035.4	8634.1
15°	10210.7	9973.6	9170.6	7798.7	7208.5
17.5°	10072.9	9737.0	8335.7	6536.3	6009.4
20°	9910.3	9473.1	7272.9	5561.0	5047.9
22.5°	9728.9	9151.9	6240.4	4621.8	3889.7
25°	9533.9	8732.9	5423.8	3412.0	2398.3
27.5°	9308.4	8194.4	4657.8	2009.7	1224.0
30°	9069.8	7545.9	3766.6	1081.1	743.2
32.5°	8829.2	6810.9	2665.3	675.3	421.5
35°	8558.7	6033.7	1580.6	371.9	180.9
37.5°	8276.5	5321.4	934.2	169.2	116.0
40°	7961.9	4670.4	600.3	112.5	114.0
42.5°	7657.9	4063.5	337.9	110.9	113.0
45°	7316.4	3399.3	155.5	112.5	112.0
47.5°	6963.3	2710.9	100.8	113.5	113.5
50°	6599.1	1938.3	100.3	116.0	113.0
52.5°	6214.6	1209.3	104.4	115.5	92.7
55°	5803.7	700.1	106.4	96.3	43.1
57.5°	5378.2	412.9	107.4	55.2	24.3
60°	4934.4	228.5	103.3	41.0	22.8
62.5°	4476.9	108.9	81.6	38.5	22.3
65°	3999.2	74.0	55.7	35.5	22.8
67.5°	3503.2	57.2	44.1	33.4	23.3
70°	3006.7	42.6	40.0	33.4	22.8
72.5°	2502.1	28.9	33.4	33.9	22.8
75°	1990.5	17.2	22.8	29.9	23.8
77.5°	1483.4	10.6	17.7	30.9	28.9
80°	998.5	9.1	18.7	28.9	22.8
82.5°	586.1	8.1	18.2	22.3	18.2
85°	248.2	6.6	12.2	18.2	15.2
87.5°	46.6	5.6	9.6	14.7	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)