

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-L735-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-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

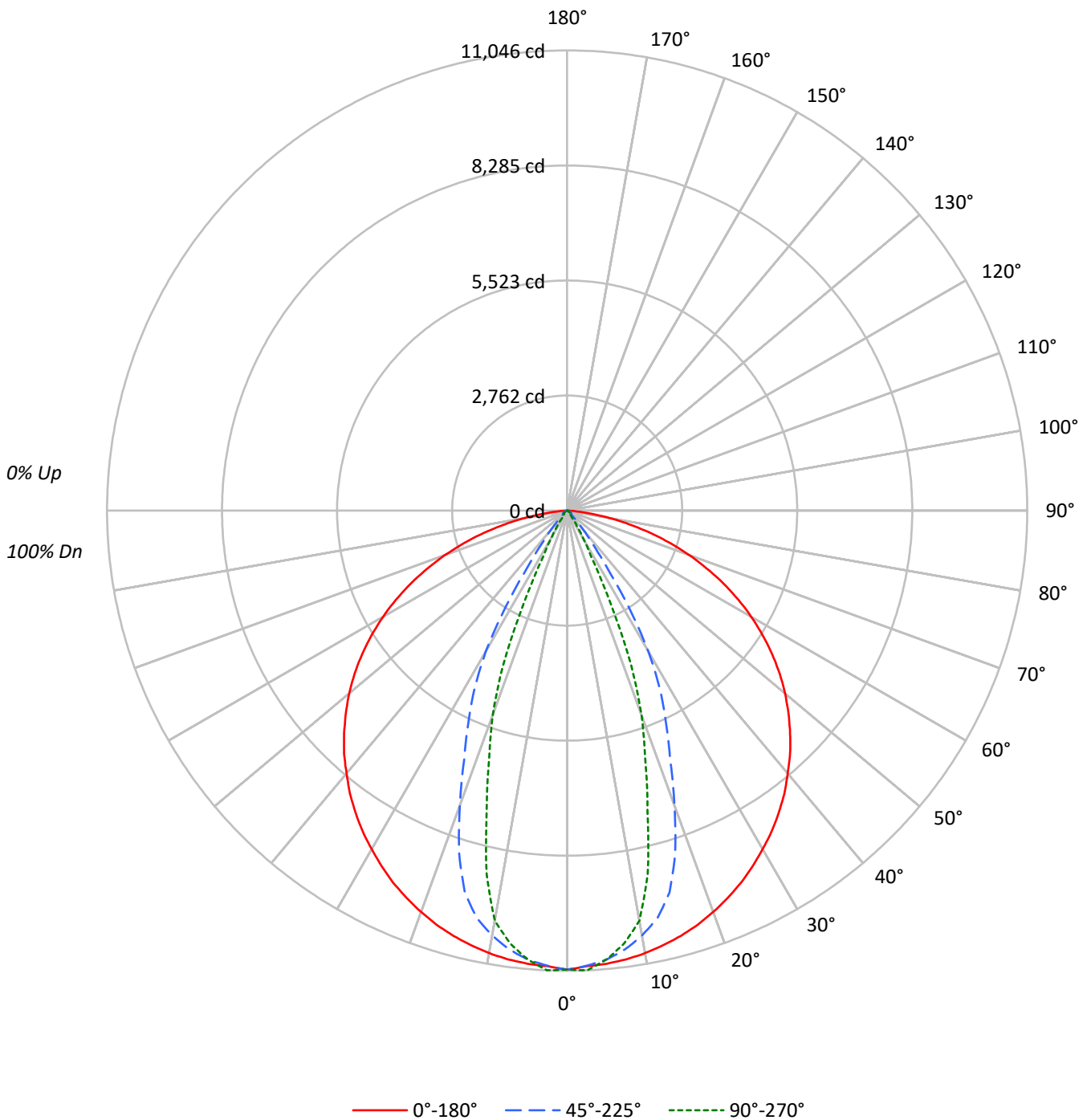
Lumens per Lamp: N/A
Luminaire Lumens: 11712.0 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14826	14826	14826
5°	14747	14617	14610
10°	14738	14148	13652
15°	14717	13218	10390
20°	14683	10775	7479
25°	14645	8332	3684
30°	14580	6055	1195
35°	14546	2686	307
40°	14470	1091	207
45°	14405	306	220
50°	14293	217	245
55°	14087	258	105
60°	13739	288	64
65°	13174	184	75
70°	12239	163	93
75°	10707	123	128
80°	8006	150	183
85°	3966	195	242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.6	8.7
10°-20°	2557.0	21.8
20°-30°	2769.6	23.6
30°-40°	2051.0	17.5
40°-50°	1477.3	12.6
50°-60°	914.7	7.8
60°-70°	562.5	4.8
70°-80°	296.5	2.5
80°-90°	60.7	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°	6349.2	54.2
0°-40°	8400.2	71.7
0°-60°	10792.2	92.1
0°-90°	11712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11019	11019	11019	11019	11019	
5°	10918	10959	10822	10830	10817	###
15°	10565	10320	9489	8070	7459	2982
25°	9865	9036	5612	3530	2482	4545
35°	8856	6243	1636	385	187	5540
45°	7570	3517	161	116	116	5838
55°	6005	724	110	100	45	5361
65°	4138	76	58	37	24	4083
75°	2060	18	24	31	25	2175
85°	257	7	13	19	16	388
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11019.2	11019.2	11019.2	11019.2	11019.2
2.5°	10948.4	11018.1	10935.8	10997.2	11045.9
5°	10918.5	10958.9	10822.1	10829.9	10817.4
7.5°	10866.1	10856.7	10626.6	10525.9	10481.9
10°	10787.0	10724.6	10355.5	10145.3	9992.3
12.5°	10684.7	10545.3	10017.4	9349.1	8933.9
15°	10565.2	10319.9	9489.0	8069.5	7458.8
17.5°	10422.6	10075.1	8625.2	6763.2	6218.0
20°	10254.4	9802.0	7525.4	5754.1	5223.1
22.5°	10066.7	9469.7	6457.1	4782.3	4024.8
25°	9864.9	9036.1	5612.1	3530.5	2481.6
27.5°	9631.6	8478.9	4819.5	2079.5	1266.5
30°	9384.7	7807.9	3897.4	1118.6	769.0
32.5°	9135.7	7047.3	2757.8	698.8	436.1
35°	8855.8	6243.2	1635.5	384.8	187.1
37.5°	8563.8	5506.2	966.6	175.1	120.0
40°	8238.3	4832.6	621.2	116.4	117.9
42.5°	7923.8	4204.6	349.6	114.8	116.9
45°	7570.5	3517.4	160.9	116.4	115.8
47.5°	7205.1	2805.0	104.3	117.4	117.4
50°	6828.2	2005.6	103.8	120.0	116.9
52.5°	6430.3	1251.3	108.0	119.5	95.9
55°	6005.2	724.4	110.1	99.6	44.6
57.5°	5564.9	427.2	111.1	57.1	25.2
60°	5105.7	236.4	106.9	42.5	23.6
62.5°	4632.3	112.7	84.4	39.8	23.1
65°	4138.0	76.5	57.7	36.7	23.6
67.5°	3624.8	59.2	45.6	34.6	24.1
70°	3111.1	44.0	41.4	34.6	23.6
72.5°	2589.0	29.9	34.6	35.1	23.6
75°	2059.6	17.8	23.6	30.9	24.6
77.5°	1534.9	11.0	18.3	32.0	29.9
80°	1033.2	9.4	19.4	29.9	23.6
82.5°	606.5	8.4	18.9	23.1	18.9
85°	256.9	6.8	12.6	18.9	15.7
87.5°	48.2	5.8	10.0	15.2	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)