

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-CLWG-UNV-L750-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLWG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

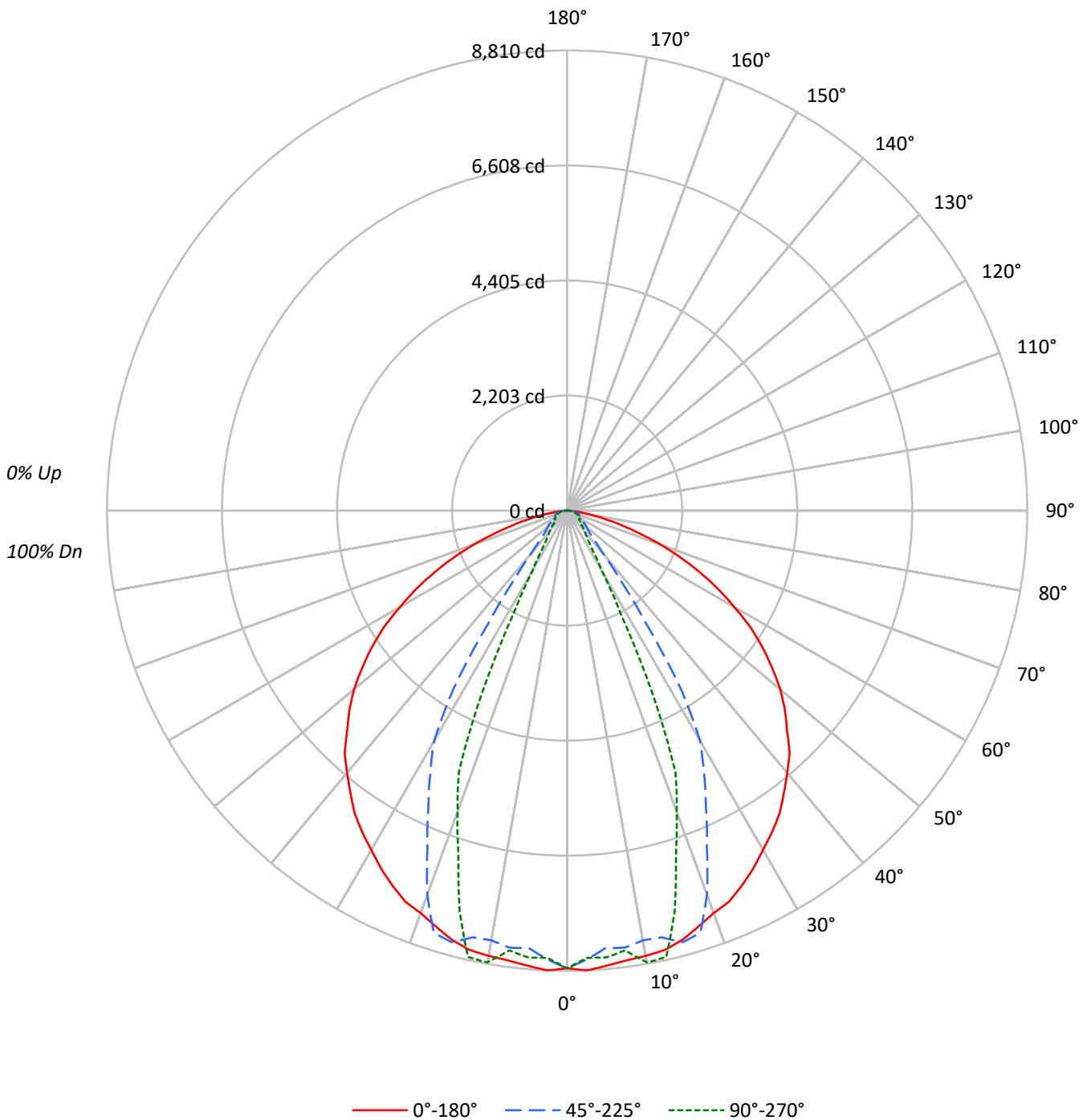
Lumens per Lamp: N/A
Luminaire Lumens: 11780.0 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11790	11790	11790
5°	11809	11360	11599
10°	11827	11414	12000
15°	11853	11915	11074
20°	11741	11206	8790
25°	11758	9342	5742
30°	11652	7914	2063
35°	11640	4287	1160
40°	11508	1869	909
45°	11330	1155	712
50°	11154	1006	673
55°	10715	873	658
60°	9942	782	707
65°	8936	884	773
70°	7495	950	797
75°	5603	1084	862
80°	3519	1258	984
85°	2343	1578	1440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.2	6.9
10°-20°	2293.4	19.5
20°-30°	2808.3	23.8
30°-40°	2205.4	18.7
40°-50°	1635.4	13.9
50°-60°	995.6	8.5
60°-70°	596.4	5.1
70°-80°	327.2	2.8
80°-90°	106.1	0.9
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°	5913.9	50.2
0°-40°	8119.2	68.9
0°-60°	10750.3	91.3
0°-90°	11780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8763	8763	8763	8763	8763	
5°	8744	8506	8411	8503	8588	832
15°	8509	8276	8554	8208	7950	2396
25°	7920	7945	6293	4936	3868	3646
35°	7087	6446	2610	873	706	4422
45°	5954	4276	607	460	374	4605
55°	4568	1178	372	315	280	4065
65°	2807	347	278	261	243	2773
75°	1078	219	208	181	166	1167
85°	152	119	102	94	93	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8762.6	8762.6	8762.6	8762.6	8762.6
2.5°	8810.4	8691.7	8600.7	8550.0	8570.6
5°	8743.7	8505.7	8410.6	8503.3	8587.8
7.5°	8685.8	8332.0	8439.5	8447.8	8492.1
10°	8656.3	8315.5	8354.5	8538.1	8783.2
12.5°	8617.3	8353.9	8367.5	8617.9	8756.1
15°	8509.2	8275.9	8553.5	8208.0	7950.0
17.5°	8351.5	8094.1	8475.5	7271.4	6920.6
20°	8199.8	7896.2	7826.5	6477.1	6138.7
22.5°	8101.7	7866.1	6991.5	5771.4	5421.8
25°	7919.8	7944.6	6292.9	4935.8	3867.5
27.5°	7719.6	7759.8	5675.2	3291.7	2215.7
30°	7500.0	7546.0	5094.1	1945.3	1327.6
32.5°	7300.9	7041.1	4068.3	1213.6	923.0
35°	7086.6	6446.4	2610.2	873.4	706.3
37.5°	6816.7	5821.6	1652.4	690.9	592.9
40°	6552.1	5260.6	1064.2	590.0	517.3
42.5°	6304.7	4798.2	774.2	515.5	467.1
45°	5954.5	4275.6	607.1	460.0	374.4
47.5°	5651.5	3662.6	530.9	389.2	323.0
50°	5328.5	2800.4	480.7	346.1	321.3
52.5°	4945.3	1831.9	444.1	331.3	300.0
55°	4567.9	1178.1	372.0	314.8	280.5
57.5°	4160.4	747.0	328.3	305.3	292.9
60°	3694.5	503.7	290.5	289.4	262.8
62.5°	3263.4	414.0	280.5	277.6	248.6
65°	2806.9	347.2	277.6	261.0	242.7
67.5°	2351.0	297.6	251.0	238.6	222.6
70°	1905.1	272.2	241.5	236.2	202.6
72.5°	1446.8	224.4	214.4	200.2	168.3
75°	1077.8	219.1	208.5	181.3	165.9
77.5°	729.3	202.0	189.6	162.4	150.0
80°	454.1	185.4	162.4	142.3	127.0
82.5°	269.9	154.7	133.5	117.5	107.5
85°	151.8	119.3	102.2	93.9	93.3
87.5°	32.5	43.1	34.3	32.5	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)