

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-CL-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 (P23768)
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-CL-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

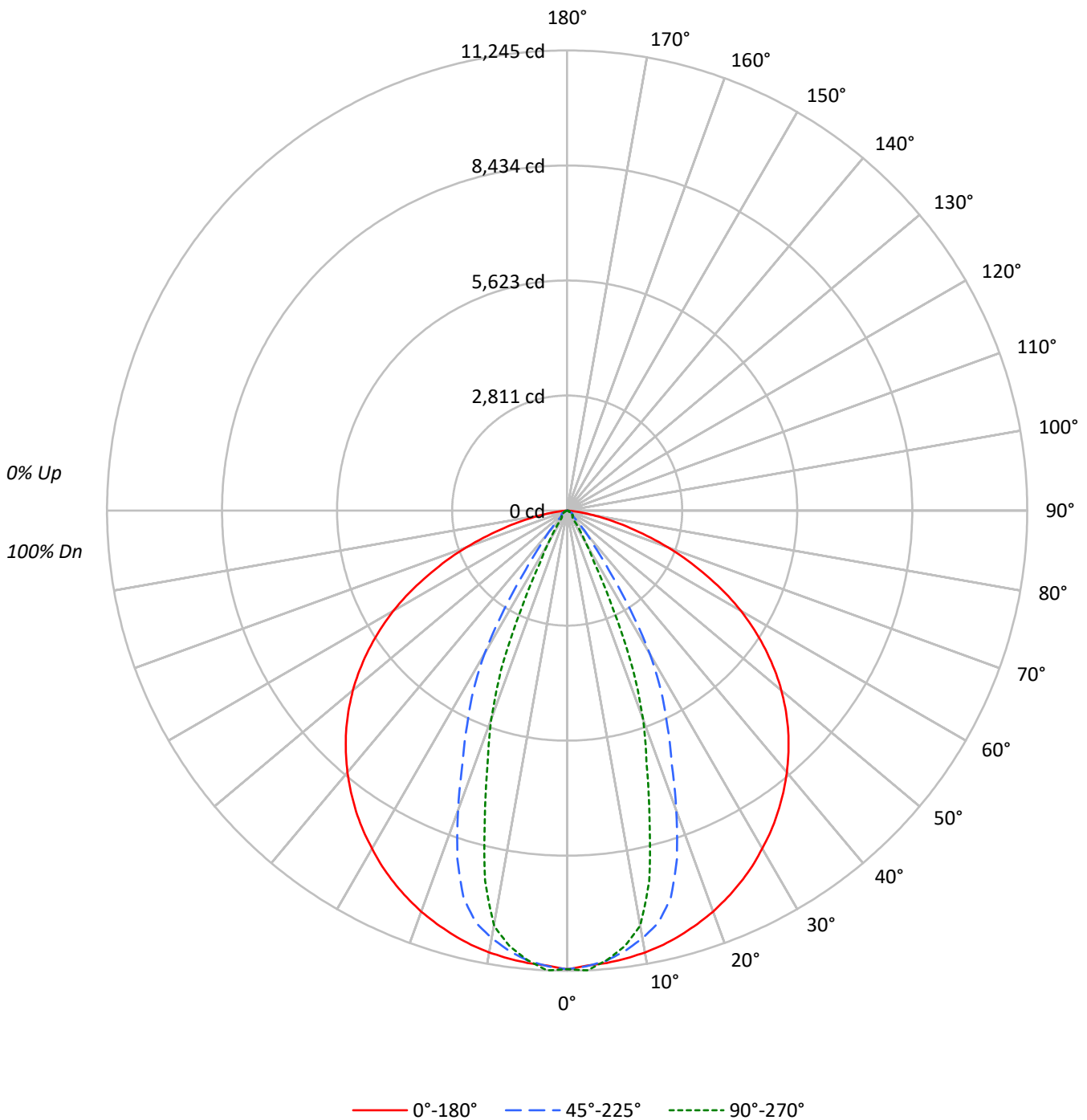
Lumens per Lamp: N/A
Luminaire Lumens: 11987.0 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87		91	87	85		88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49		59	53	49		58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15081	15081	15081
5°	14988	14910	14899
10°	14978	14497	14070
15°	14961	13633	10818
20°	14931	11156	7760
25°	14885	8596	3943
30°	14814	6273	1435
35°	14761	2881	499
40°	14670	1308	345
45°	14540	488	349
50°	14308	354	367
55°	13885	373	280
60°	13194	398	247
65°	11966	303	201
70°	10259	219	185
75°	7842	194	176
80°	4906	182	191
85°	1550	213	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1043.5	8.7
10°-20°	2628.6	21.9
20°-30°	2862.7	23.9
30°-40°	2141.4	17.9
40°-50°	1539.7	12.8
50°-60°	945.6	7.9
60°-70°	544.1	4.5
70°-80°	242.9	2.0
80°-90°	38.5	0.3
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
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0°-30°	6534.7	54.5
0°-40°	8676.1	72.4
0°-60°	11161.5	93.1
0°-90°	11987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11208	11208	11208	11208	11208	
5°	11097	11149	11039	11049	11031	###
15°	10740	10534	9787	8405	7766	3032
25°	10026	9307	5790	3715	2656	4622
35°	8987	6446	1754	516	304	5622
45°	7641	3621	256	190	184	5887
55°	5919	752	159	154	119	5277
65°	3758	83	95	79	63	3720
75°	1508	50	37	38	34	1637
85°	100	10	14	18	17	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11208.2	11208.2	11208.2	11208.2	11208.2
2.5°	11130.2	11203.0	11141.6	11196.7	11245.4
5°	11096.9	11149.1	11039.0	11049.3	11030.9
7.5°	11039.5	11052.2	10853.1	10776.3	10739.0
10°	10962.7	10928.8	10611.1	10428.1	10298.0
12.5°	10865.8	10753.9	10310.0	9656.7	9267.3
15°	10740.2	10534.3	9786.9	8405.3	7766.3
17.5°	10590.5	10304.8	8920.9	7005.2	6452.4
20°	10428.1	10051.3	7791.6	5956.2	5419.4
22.5°	10236.6	9727.3	6677.8	4953.7	4216.7
25°	10026.1	9306.9	5789.9	3714.8	2656.1
27.5°	9799.0	8752.3	4968.0	2278.1	1436.1
30°	9535.1	8077.2	4037.7	1278.4	923.4
32.5°	9277.6	7290.3	2884.3	851.7	590.2
35°	8986.8	6445.5	1753.9	515.6	304.0
37.5°	8678.8	5677.5	1097.8	280.5	209.9
40°	8352.5	4949.1	744.5	199.0	196.2
42.5°	8003.8	4290.1	466.3	189.3	195.6
45°	7641.3	3621.3	256.4	189.8	183.5
47.5°	7247.9	2895.2	178.9	179.5	178.9
50°	6835.5	2076.8	169.2	177.2	175.5
52.5°	6391.0	1289.3	169.8	173.2	155.4
55°	5919.0	752.5	158.9	153.7	119.3
57.5°	5422.8	469.2	155.4	126.8	107.3
60°	4903.2	247.8	148.0	114.1	91.8
62.5°	4349.7	122.2	118.7	97.5	75.1
65°	3758.4	82.6	95.2	79.1	63.1
67.5°	3187.2	74.6	71.7	64.8	55.1
70°	2607.9	68.3	55.6	56.8	47.0
72.5°	2039.5	61.9	44.7	48.8	39.6
75°	1508.4	49.9	37.3	38.4	33.8
77.5°	1049.6	39.0	29.3	32.7	31.5
80°	633.2	24.7	23.5	27.0	24.7
82.5°	306.8	16.1	18.4	21.2	19.5
85°	100.4	9.8	13.8	17.8	16.6
87.5°	12.6	5.7	11.5	15.5	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)