

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-LD5-12SE-W-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-CLI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

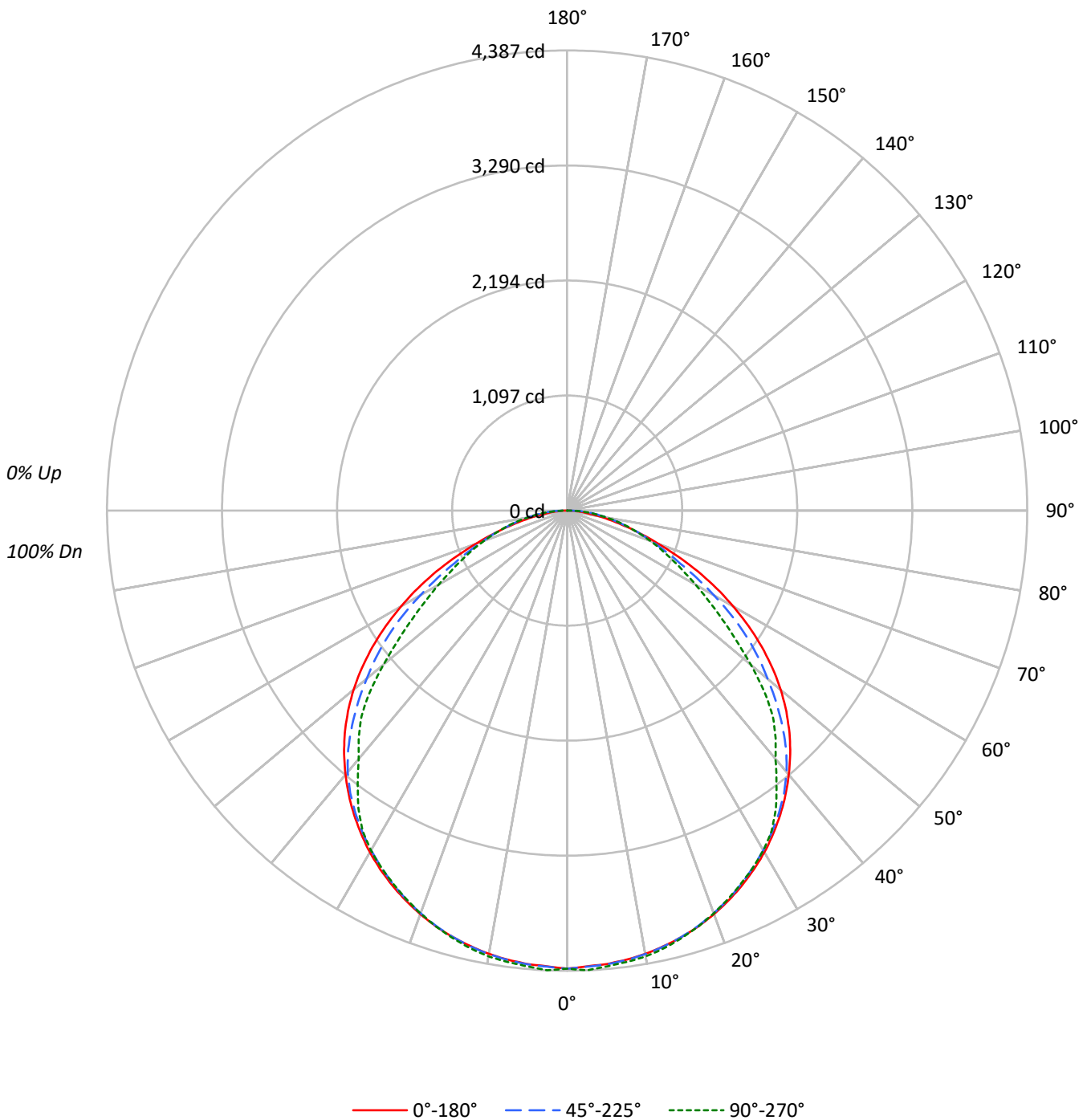
Lumens per Lamp: N/A
Luminaire Lumens: 11733.0 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5876	5876	5876
5°	5860	5864	5890
10°	5863	5866	5897
15°	5864	5863	5877
20°	5863	5849	5851
25°	5854	5832	5825
30°	5844	5809	5812
35°	5817	5781	5699
40°	5775	5716	5428
45°	5702	5519	5278
50°	5565	5226	4780
55°	5312	4887	4227
60°	4929	4361	3812
65°	4381	3776	3505
70°	3636	3374	3304
75°	2941	3088	3126
80°	2335	2953	2941
85°	1829	3172	3027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.2	3.5
10°-20°	1191.3	10.2
20°-30°	1816.5	15.5
30°-40°	2197.7	18.7
40°-50°	2226.0	19.0
50°-60°	1839.9	15.7
60°-70°	1215.2	10.4
70°-80°	633.7	5.4
80°-90°	198.7	1.7
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°	3421.9	29.2
0°-40°	5619.6	47.9
0°-60°	9685.5	82.5
0°-90°	11733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4367	4367	4367	4367	4367	
5°	4339	4365	4342	4361	4361	413
15°	4210	4231	4209	4222	4219	1189
25°	3943	3959	3928	3938	3924	1818
35°	3541	3546	3519	3515	3470	2215
45°	2997	2989	2901	2811	2774	2307
55°	2264	2231	2083	1881	1802	2018
65°	1376	1336	1186	1109	1101	1359
75°	566	576	594	602	601	616
85°	118	153	206	204	196	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4367.1	4367.1	4367.1	4367.1	4367.1
2.5°	4348.7	4374.4	4352.9	4371.8	4387.0
5°	4338.8	4365.0	4341.9	4360.8	4361.3
7.5°	4319.4	4345.6	4322.0	4340.9	4340.4
10°	4291.6	4316.2	4293.7	4316.2	4316.2
12.5°	4253.8	4278.0	4255.9	4276.9	4273.8
15°	4209.8	4231.3	4209.3	4222.4	4219.2
17.5°	4157.9	4177.3	4152.7	4163.7	4157.4
20°	4094.5	4112.3	4085.0	4099.2	4086.1
22.5°	4023.2	4040.0	4012.2	4022.6	4008.0
25°	3943.0	3958.7	3928.3	3938.2	3923.6
27.5°	3856.5	3870.6	3836.5	3848.6	3837.1
30°	3761.6	3768.4	3739.0	3754.8	3741.1
32.5°	3655.7	3659.9	3634.2	3648.3	3625.3
35°	3541.4	3546.1	3519.4	3514.6	3469.6
37.5°	3419.2	3421.3	3396.2	3353.7	3279.2
40°	3288.2	3287.1	3254.6	3156.6	3090.5
42.5°	3148.2	3147.7	3090.5	2978.8	2941.1
45°	2996.7	2988.8	2900.7	2810.6	2773.9
47.5°	2834.2	2825.8	2702.6	2630.7	2547.4
50°	2658.5	2643.8	2496.5	2398.5	2283.7
52.5°	2469.3	2446.7	2296.8	2138.5	2029.9
55°	2264.3	2230.7	2083.4	1881.0	1801.9
57.5°	2050.9	2001.1	1858.0	1660.9	1596.4
60°	1831.8	1776.2	1620.5	1458.5	1416.6
62.5°	1606.3	1551.3	1392.4	1270.3	1247.2
65°	1376.2	1336.3	1185.9	1108.8	1100.9
67.5°	1140.3	1126.1	1011.3	972.0	968.8
70°	924.3	921.6	857.7	837.8	839.9
72.5°	738.7	735.5	726.1	716.1	716.7
75°	565.7	575.6	594.0	601.9	601.3
77.5°	422.0	442.5	481.3	497.0	494.4
80°	301.4	331.9	381.1	395.8	379.6
82.5°	200.8	232.8	291.0	293.1	280.0
85°	118.5	152.6	205.5	203.9	196.1
87.5°	58.7	91.7	123.2	118.0	112.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)