Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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-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.

Report Generated By E9911574 / USPTCWHP6081592

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23760)
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-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:	12629.0 lumens
Efficiency:	N/A
Efficacy:	164.9 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.42
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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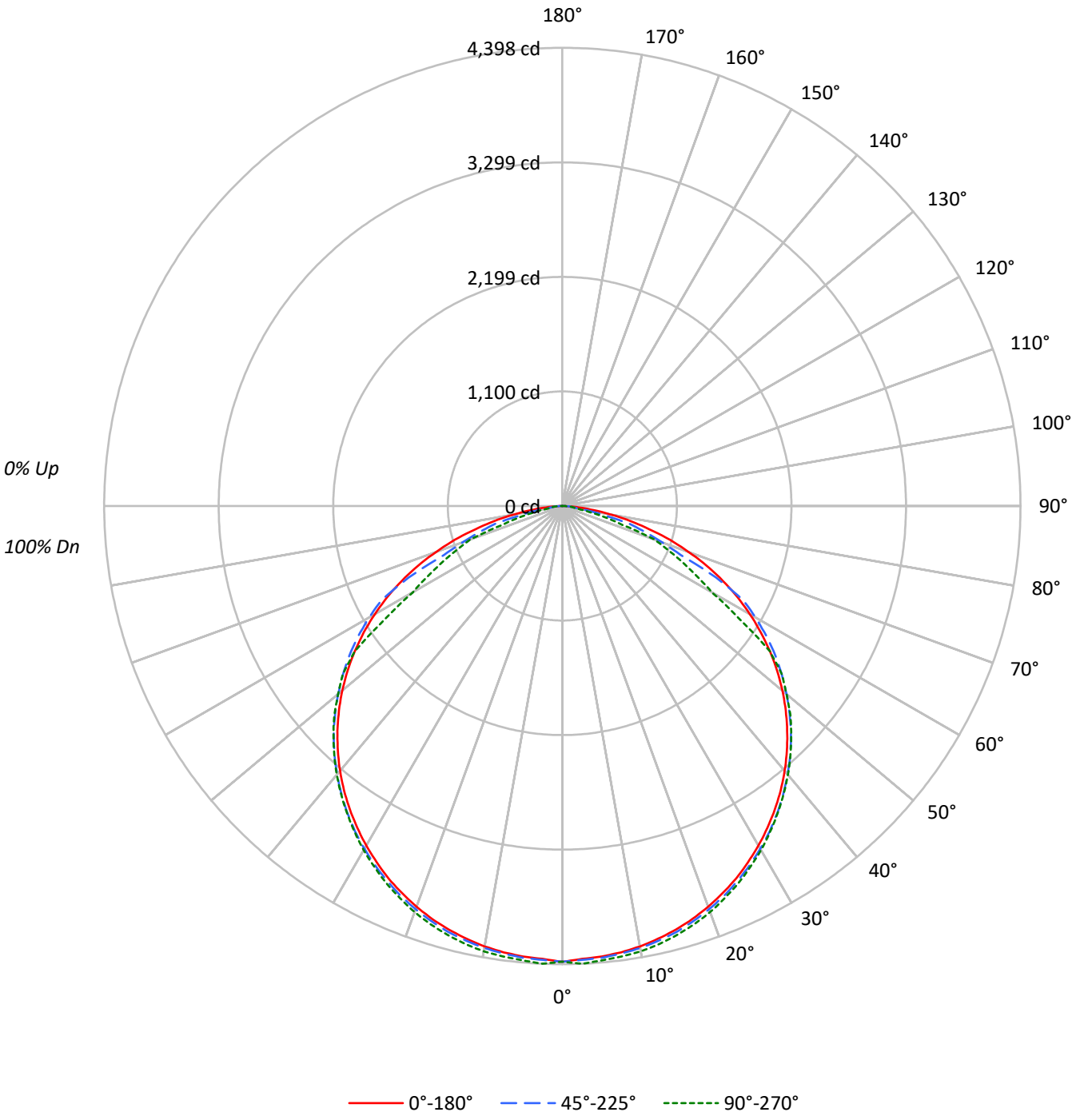
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5886	5886	5886
5°	5862	5878	5911
10°	5865	5886	5930
15°	5863	5895	5936
20°	5860	5898	5939
25°	5858	5900	5933
30°	5848	5905	5927
35°	5841	5908	5916
40°	5830	5908	5917
45°	5808	5905	5912
50°	5773	5880	5879
55°	5706	5849	5704
60°	5600	5762	4463
65°	5413	5186	4021
70°	5071	3990	3705
75°	4491	3479	2309
80°	3698	2048	1032
85°	2438	1255	1352

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.1	3.3
10°-20°	1197.7	9.5
20°-30°	1836.2	14.5
30°-40°	2251.9	17.8
40°-50°	2391.1	18.9
50°-60°	2184.0	17.3
60°-70°	1520.9	12.0
70°-80°	709.4	5.6
80°-90°	122.7	1.0
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°	3449.0	27.3
0°-40°	5700.8	45.1
0°-60°	10276.0	81.4
0°-90°	12629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4375	4375	4375	4375	4375	
5°	4340	4370	4352	4373	4377	413
15°	4209	4239	4232	4258	4261	1189
25°	3946	3981	3974	4004	3996	1818
35°	3556	3597	3597	3621	3602	2225
45°	3052	3098	3103	3123	3107	2354
55°	2432	2481	2493	2498	2431	2172
65°	1700	1753	1629	1295	1263	1678
75°	864	918	669	464	444	923
85°	158	104	81	87	88	204
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4374.6	4374.6	4374.6	4374.6	*4374.6*
2.5°	*4351.5*	*4379.3*	*4360.9*	*4380.9*	*4397.6*
5°	4340.0	4370.4	4352.0	4373.0	*4376.7*
7.5°	4321.1	4349.9	4333.1	4356.2	*4362.0*
10°	4292.8	4321.1	4308.0	4335.2	*4340.5*
12.5°	4254.5	4283.3	4273.3	4303.2	*4306.9*
15°	4209.4	4238.7	4231.9	4257.6	*4261.3*
17.5°	4156.4	4186.8	4178.9	4206.2	*4208.8*
20°	4092.9	4126.0	4119.2	4151.1	*4148.0*
22.5°	4021.6	4056.7	4051.5	4083.5	*4074.1*
25°	3946.1	3980.7	3974.4	4003.8	*3996.4*
27.5°	3857.4	3895.7	3890.0	3918.3	*3906.7*
30°	3764.1	3802.9	3800.8	3826.5	*3815.0*
32.5°	3663.4	3704.8	3702.7	3727.9	*3710.1*
35°	3555.9	3596.8	3596.8	3620.9	*3601.5*
37.5°	3442.1	3483.5	3484.0	3507.1	*3488.7*
40°	3319.3	3360.8	3363.4	3385.4	*3368.6*
42.5°	3190.3	3235.4	3237.5	3257.5	*3241.7*
45°	3052.4	3098.5	3103.3	3123.2	*3106.9*
47.5°	2908.2	2954.8	2959.0	2980.5	*2969.0*
50°	2758.2	2803.3	2809.0	2826.9	*2808.5*
52.5°	2599.8	2645.9	2653.8	2664.8	*2656.4*
55°	2432.5	2481.2	2493.3	2497.5	*2431.4*
57.5°	2259.4	2309.2	2320.8	2224.3	*2011.9*
60°	2081.1	2130.4	2141.4	1809.4	*1658.4*
62.5°	1895.4	1943.7	1955.7	1499.4	*1451.2*
65°	1700.3	1752.8	1629.0	1295.4	*1262.9*
67.5°	1500.0	1554.0	1232.0	1110.3	*1090.9*
70°	1289.1	1343.7	1014.3	946.7	*941.9*
72.5°	1086.7	1127.1	832.3	717.5	*604.2*
75°	863.8	918.3	669.2	463.6	*444.2*
77.5°	669.7	579.0	403.8	339.9	*268.0*
80°	477.3	387.1	264.3	141.1	*133.2*
82.5°	302.6	252.8	103.8	106.5	*111.2*
85°	157.9	103.8	81.3	87.1	*87.6*
87.5°	50.9	44.6	48.8	48.3	*47.7*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)