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-LD5-15SE-W-AWG-UNV-L840-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 (P23764)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-15SE-W-AWG-UNV-L840-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:	12723.0 lumens
Efficiency:	N/A
Efficacy:	133.6 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.28 / 1.32
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	95.2
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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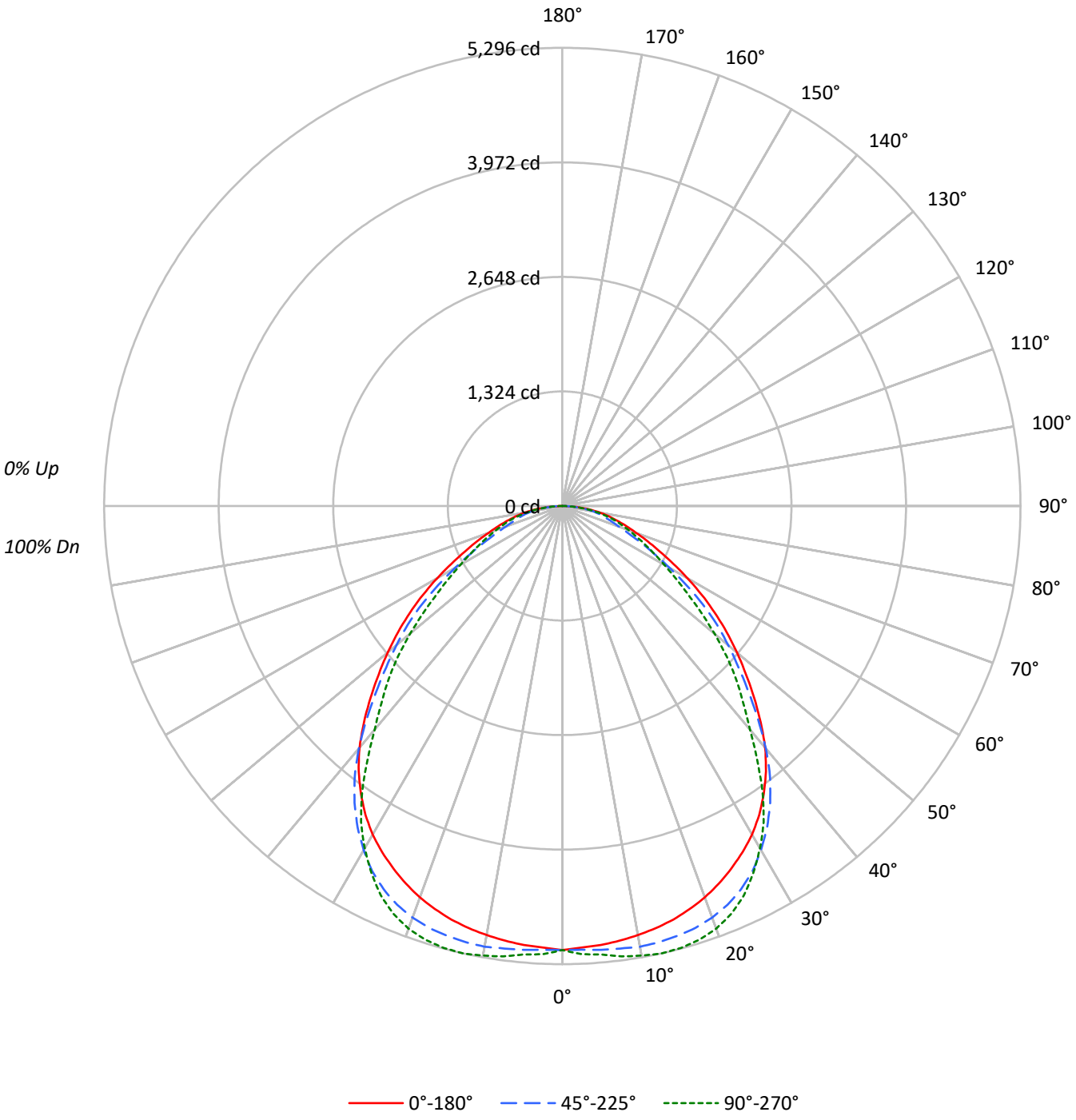
Luminous Intensity Polar Plot



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6906	6906	6906
5°	6879	6956	7027
10°	6881	7067	7210
15°	6894	7165	7367
20°	6892	7248	7442
25°	6863	7257	7375
30°	6812	7136	7098
35°	6667	6878	6627
40°	6407	6425	5925
45°	5963	5793	5417
50°	5512	5238	4800
55°	5046	4642	4141
60°	4499	3853	3658
65°	3946	3171	3360
70°	3563	2731	3200
75°	3405	2677	3191
80°	3433	2834	3113
85°	3041	2597	2717

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	3.9
10°-20°	1452.9	11.4
20°-30°	2228.6	17.5
30°-40°	2563.2	20.1
40°-50°	2337.8	18.4
50°-60°	1752.2	13.8
60°-70°	1077.8	8.5
70°-80°	617.6	4.9
80°-90°	200.0	1.6
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°	4174.5	32.8
0°-40°	6737.6	53.0
0°-60°	10827.6	85.1
0°-90°	12723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5132	5132	5132	5132	5132	
5°	5093	5145	5150	5193	5202	484
15°	4949	5059	5144	5254	5289	1397
25°	4623	4755	4888	4964	4967	2130
35°	4059	4138	4187	4119	4035	2532
45°	3134	3202	3044	2887	2847	2419
55°	2151	2071	1979	1804	1766	1922
65°	1239	1108	996	1027	1056	1246
75°	655	587	515	590	614	700
85°	197	186	168	177	176	220
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5132.4	5132.4	5132.4	5132.4	*5132.4*
2.5°	5108.1	5144.8	5133.0	5163.1	*5185.4*
5°	5093.1	5144.8	5150.0	5192.6	*5202.4*
7.5°	5067.6	5135.0	5158.5	5233.8	*5250.8*
10°	5036.2	5117.3	5172.9	5254.1	*5277.0*
12.5°	*4998.2*	*5092.4*	*5163.1*	*5263.2*	*5296.0*
15°	4949.1	5059.1	5144.1	5254.1	*5288.8*
17.5°	4887.0	5014.6	5114.0	5222.0	*5258.0*
20°	4813.7	4948.5	5061.7	5172.3	*5197.8*
22.5°	4725.3	4860.8	4989.7	5089.2	*5102.9*
25°	4622.6	4755.4	4888.3	4963.5	*4967.4*
27.5°	4510.7	4634.4	4758.7	4799.3	*4781.6*
30°	4384.4	4495.0	4593.1	4601.6	*4568.9*
32.5°	4234.5	4334.0	4404.0	4385.7	*4330.7*
35°	4059.2	4138.3	4187.4	4118.7	*4034.9*
37.5°	3866.8	3926.3	3942.7	3793.5	*3697.9*
40°	3647.6	3698.6	3658.0	3450.6	*3373.4*
42.5°	3395.0	3453.9	3349.8	3145.0	*3097.9*
45°	3133.9	3201.9	3044.2	2887.2	*2846.6*
47.5°	2878.0	2940.2	2761.5	2635.2	*2575.0*
50°	2633.3	2660.1	2502.4	2359.7	*2293.0*
52.5°	2392.4	2365.6	2253.7	2076.4	*2017.5*
55°	2151.0	2071.1	1978.9	1804.1	*1765.5*
57.5°	1908.8	1797.6	1696.8	1562.7	*1547.6*
60°	1672.0	1535.2	1431.8	1352.0	*1359.2*
62.5°	1446.2	1306.8	1196.2	1170.7	*1198.2*
65°	1239.4	1108.5	996.0	1026.7	*1055.5*
67.5°	1067.3	941.7	827.1	905.7	*928.6*
70°	905.7	804.2	694.3	795.7	*813.4*
72.5°	776.8	690.4	594.8	693.6	*708.7*
75°	655.0	587.0	515.0	589.6	*613.8*
77.5°	549.0	492.8	443.7	487.5	*513.7*
80°	443.0	395.2	365.8	385.4	*401.8*
82.5°	324.6	293.8	272.2	280.7	*283.3*
85°	197.0	185.8	168.2	177.3	*176.0*
87.5°	64.8	73.9	77.9	70.0	*66.1*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)