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-N-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 (P23767)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-15SE-N-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:	15737.0 lumens
Efficiency:	N/A
Efficacy:	165.3 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.62 / 0.77
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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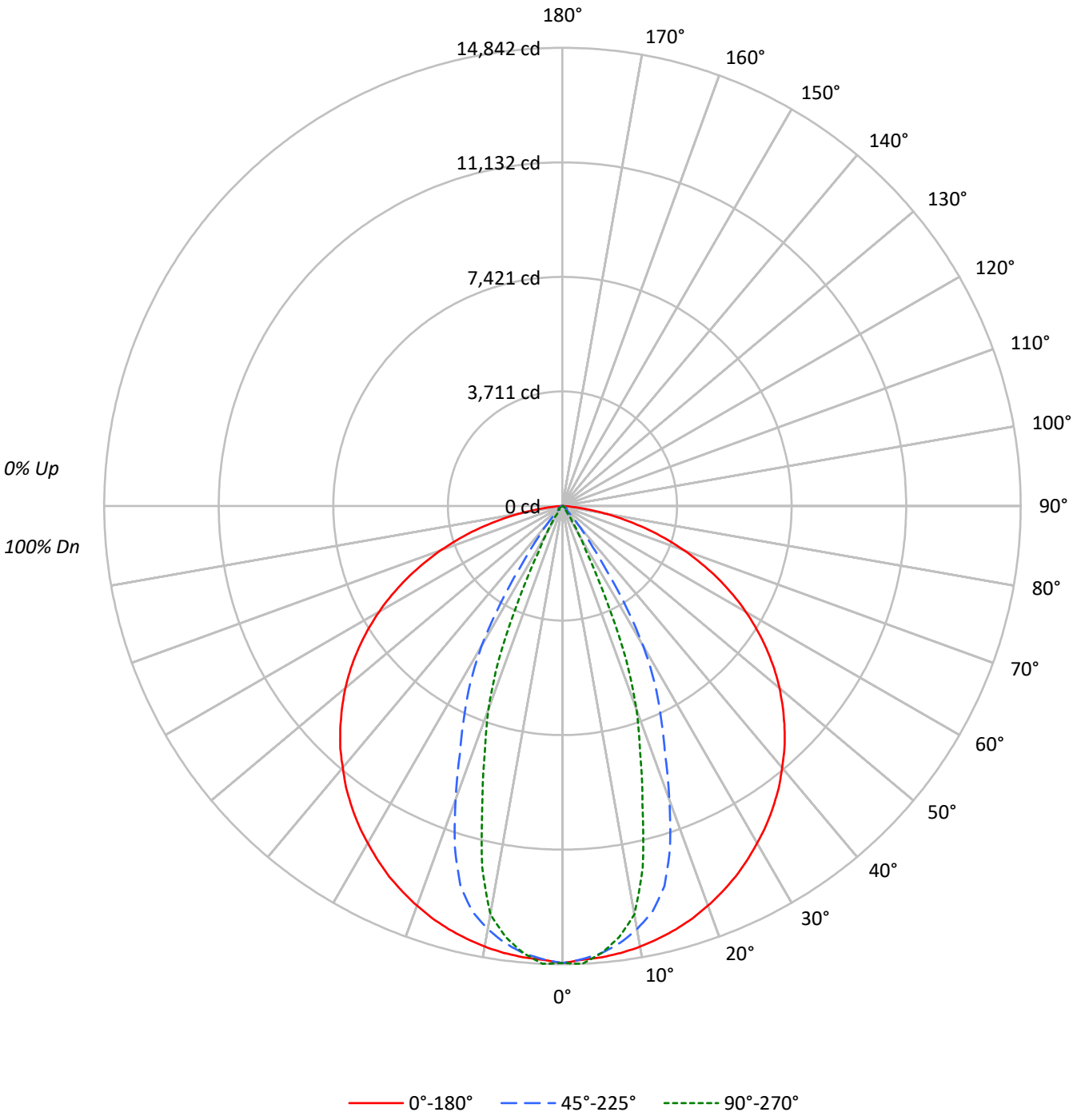
Luminous Intensity Polar Plot



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19921	19921	19921
5°	19815	19640	19631
10°	19803	19010	18344
15°	19775	17760	13960
20°	19728	14478	10049
25°	19678	11195	4950
30°	19591	8136	1605
35°	19545	3610	413
40°	19443	1466	278
45°	19356	411	296
50°	19205	292	329
55°	18928	347	141
60°	18461	387	85
65°	17702	247	101
70°	16445	219	125
75°	14387	165	172
80°	10757	202	246
85°	5328	261	326

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1374.0	8.7
10°-20°	3435.8	21.8
20°-30°	3721.4	23.6
30°-40°	2755.9	17.5
40°-50°	1985.0	12.6
50°-60°	1229.1	7.8
60°-70°	755.9	4.8
70°-80°	398.5	2.5
80°-90°	81.6	0.5
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°	8531.2	54.2
0°-40°	11287.1	71.7
0°-60°	14501.1	92.1
0°-90°	15737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14806	14806	14806	14806	14806	
5°	14671	14725	14541	14552	14535	###
15°	14196	13866	12750	10843	10022	4007
25°	13255	12142	7541	4744	3334	6108
35°	11899	8389	2198	517	252	7444
45°	10172	4726	216	156	156	7845
55°	8069	973	148	134	60	7203
65°	5560	103	78	49	32	5486
75°	2767	24	32	42	33	2923
85°	345	9	17	25	21	521
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14806.1	14806.1	14806.1	14806.1	*14806.1*
2.5°	*14711.0*	*14804.7*	*14694.1*	*14776.5*	*14842.0*
5°	14670.8	14725.1	14541.2	14551.8	*14534.9*
7.5°	14600.4	14587.7	14278.5	14143.3	*14084.1*
10°	14494.1	14410.2	13914.4	13631.9	*13426.3*
12.5°	14356.7	14169.4	13460.1	12562.0	*12004.2*
15°	14196.1	13866.5	12750.1	10842.7	*10022.2*
17.5°	14004.5	13537.6	11589.3	9087.5	*8355.0*
20°	13778.4	13170.6	10111.6	7731.6	*7018.1*
22.5°	13526.3	12724.0	8676.1	6425.8	*5408.0*
25°	13255.1	12141.5	7540.7	4743.8	*3334.4*
27.5°	12941.7	11392.8	6475.8	2794.1	*1701.7*
30°	12609.9	10491.3	5236.8	1503.1	*1033.3*
32.5°	12275.4	9469.2	3705.6	938.9	*586.0*
35°	11899.2	8388.8	2197.6	517.0	*251.5*
37.5°	11506.9	7398.5	1298.8	235.3	*161.3*
40°	11069.5	6493.4	834.7	156.4	*158.5*
42.5°	10646.9	5649.6	469.8	154.3	*157.1*
45°	10172.2	4726.2	216.2	156.4	*155.7*
47.5°	9681.3	3769.0	140.2	157.8	*157.8*
50°	9174.8	2694.8	139.5	161.3	*157.1*
52.5°	8640.2	1681.3	145.1	160.6	*128.9*
55°	8069.0	973.4	147.9	133.8	*59.9*
57.5°	7477.4	574.0	149.3	76.8	*33.8*
60°	6860.3	317.7	143.7	57.1	*31.7*
62.5°	6224.3	151.4	113.4	53.5	*31.0*
65°	5560.1	102.8	77.5	49.3	*31.7*
67.5°	4870.6	79.6	61.3	46.5	*32.4*
70°	4180.3	59.2	55.6	46.5	*31.7*
72.5°	3478.8	40.1	46.5	47.2	*31.7*
75°	2767.4	23.9	31.7	41.6	*33.1*
77.5°	2062.3	14.8	24.7	43.0	*40.1*
80°	1388.3	12.7	26.1	40.1	*31.7*
82.5°	814.9	11.3	25.4	31.0	*25.4*
85°	345.1	9.2	16.9	25.4	*21.1*
87.5°	64.8	7.7	13.4	20.4	*18.3*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)