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-L850-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-L850-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:	15210.0 lumens
Efficiency:	N/A
Efficacy:	159.8 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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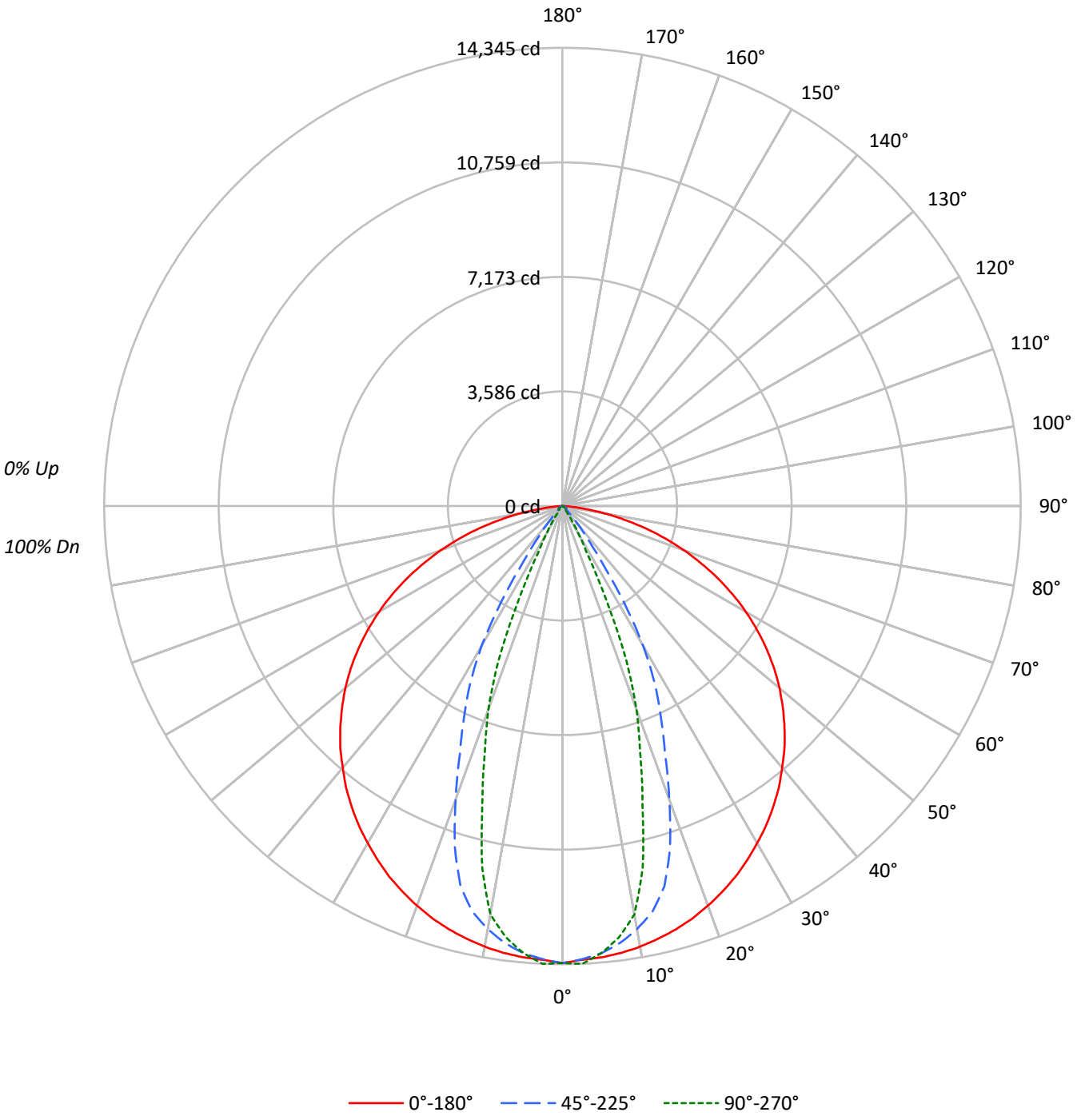
Luminous Intensity Polar Plot



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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°	19254	19254	19254
5°	19151	18982	18974
10°	19139	18374	17729
15°	19112	17166	13493
20°	19068	13993	9712
25°	19019	10820	4784
30°	18935	7864	1552
35°	18891	3489	399
40°	18791	1417	269
45°	18707	398	286
50°	18562	282	318
55°	18294	335	136
60°	17843	374	82
65°	17109	238	97
70°	15894	212	120
75°	13905	159	166
80°	10397	195	237
85°	5150	252	315

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1328.0	8.7
10°-20°	3320.7	21.8
20°-30°	3596.8	23.6
30°-40°	2663.6	17.5
40°-50°	1918.5	12.6
50°-60°	1187.9	7.8
60°-70°	730.6	4.8
70°-80°	385.1	2.5
80°-90°	78.8	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°	8245.5	54.2
0°-40°	10909.1	71.7
0°-60°	14015.5	92.1
0°-90°	15210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14310	14310	14310	14310	14310	
5°	14180	14232	14054	14064	14048	###
15°	13721	13402	12323	10480	9686	3873
25°	12811	11735	7288	4585	3223	5903
35°	11501	8108	2124	500	243	7195
45°	9832	4568	209	151	150	7582
55°	7799	941	143	129	58	6962
65°	5374	99	75	48	31	5302
75°	2675	23	31	40	32	2825
85°	334	9	16	24	20	504
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14310.3	14310.3	14310.3	14310.3	*14310.3*
2.5°	*14218.4*	*14308.9*	*14202.0*	*14281.7*	*14345.0*
5°	14179.6	14232.0	14054.3	14064.5	*14048.2*
7.5°	14111.5	14099.2	13800.4	13669.7	*13612.5*
10°	14008.7	13927.7	13448.4	13175.4	*12976.6*
12.5°	13875.9	13694.9	13009.3	12141.4	*11602.2*
15°	13720.7	13402.1	12323.1	10479.6	*9686.5*
17.5°	13535.6	13084.2	11201.2	8783.2	*8075.2*
20°	13317.0	12729.5	9773.0	7472.7	*6783.1*
22.5°	13073.3	12297.9	8385.6	6210.6	*5226.9*
25°	12811.2	11734.9	7288.2	4584.9	*3222.7*
27.5°	12508.3	11011.3	6258.9	2700.6	*1644.7*
30°	12187.6	10139.9	5061.5	1452.7	*998.7*
32.5°	11864.3	9152.1	3581.5	907.5	*566.4*
35°	11500.8	8107.9	2124.0	499.7	*243.0*
37.5°	11121.6	7150.7	1255.3	227.4	*155.9*
40°	10698.8	6275.9	806.7	151.1	*153.2*
42.5°	10290.4	5460.4	454.1	149.1	*151.8*
45°	9831.5	4567.9	209.0	151.1	*150.4*
47.5°	9357.0	3642.7	135.5	152.5	*152.5*
50°	8867.6	2604.6	134.8	155.9	*151.8*
52.5°	8350.9	1625.0	140.2	155.2	*124.6*
55°	7798.8	940.8	143.0	129.3	*57.9*
57.5°	7226.9	554.8	144.3	74.2	*32.7*
60°	6630.6	307.0	138.9	55.1	*30.6*
62.5°	6015.9	146.4	109.6	51.7	*30.0*
65°	5373.9	99.4	74.9	47.7	*30.6*
67.5°	4707.5	76.9	59.2	44.9	*31.3*
70°	4040.3	57.2	53.8	44.9	*30.6*
72.5°	3362.3	38.8	44.9	45.6	*30.6*
75°	2674.7	23.1	30.6	40.2	*32.0*
77.5°	1993.3	14.3	23.8	41.5	*38.8*
80°	1341.8	12.3	25.2	38.8	*30.6*
82.5°	787.6	10.9	24.5	30.0	*24.5*
85°	333.6	8.8	16.3	24.5	*20.4*
87.5°	62.6	7.5	12.9	19.7	*17.7*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)