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-L740-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-L740-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:	14571.0 lumens
Efficiency:	N/A
Efficacy:	153.1 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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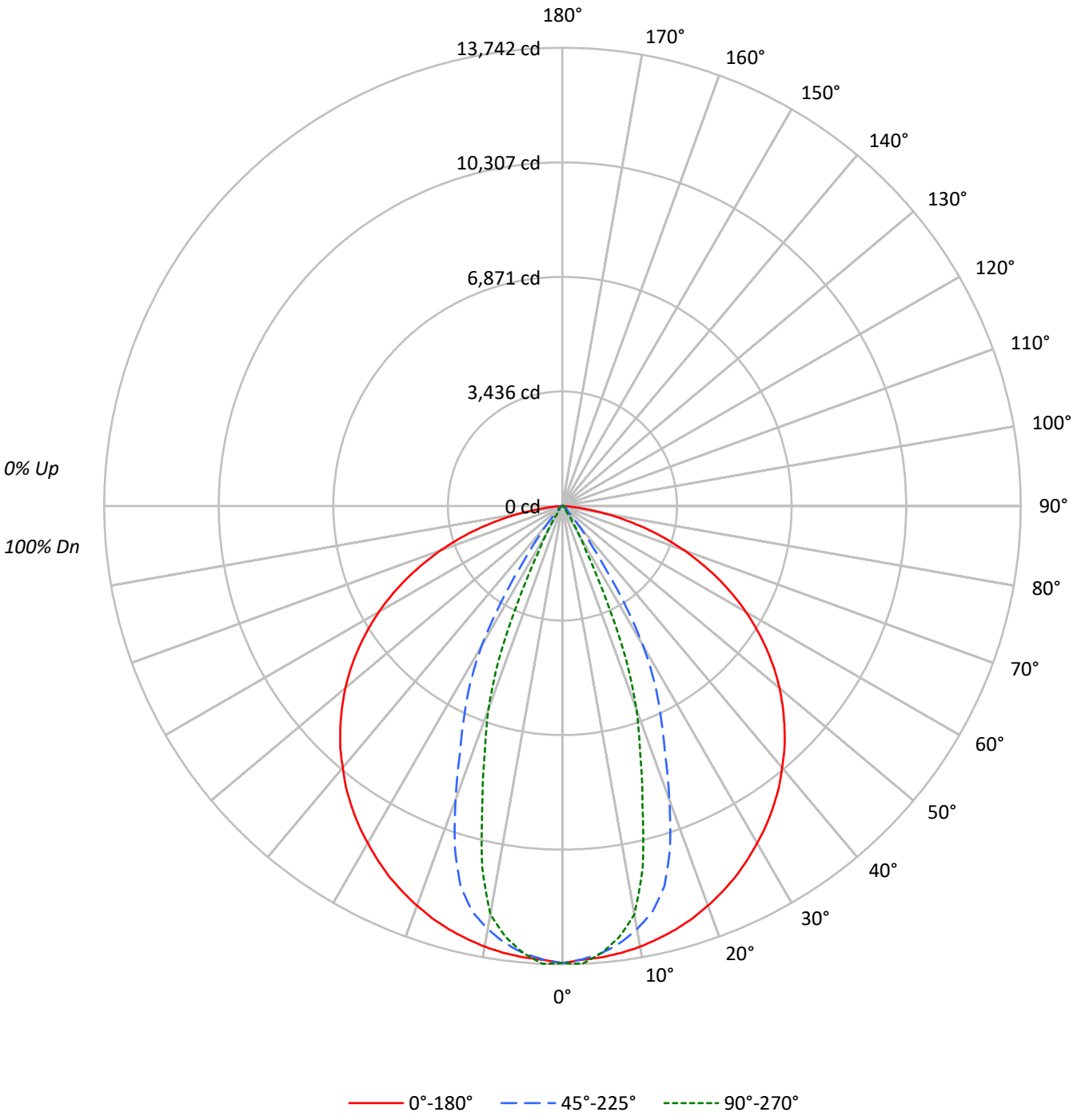
Luminous Intensity Polar Plot



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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°	18445	18445	18445
5°	18347	18185	18177
10°	18335	17602	16984
15°	18309	16444	12926
20°	18267	13405	9304
25°	18220	10365	4583
30°	18140	7533	1486
35°	18097	3342	382
40°	18002	1357	258
45°	17922	381	274
50°	17782	270	304
55°	17526	321	130
60°	17093	358	79
65°	16390	228	93
70°	15227	203	115
75°	13320	152	160
80°	9960	187	227
85°	4934	242	303

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1272.2	8.7
10°-20°	3181.2	21.8
20°-30°	3445.7	23.6
30°-40°	2551.7	17.5
40°-50°	1837.9	12.6
50°-60°	1138.0	7.8
60°-70°	699.9	4.8
70°-80°	368.9	2.5
80°-90°	75.5	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°	7899.1	54.2
0°-40°	10450.8	71.7
0°-60°	13426.7	92.1
0°-90°	14571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13709	13709	13709	13709	13709	
5°	13584	13634	13464	13474	13458	###
15°	13144	12839	11805	10039	9280	3711
25°	12273	11242	6982	4392	3087	5655
35°	11018	7767	2035	479	233	6893
45°	9418	4376	200	145	144	7264
55°	7471	901	137	124	55	6669
65°	5148	95	72	46	29	5079
75°	2562	22	29	38	31	2706
85°	320	8	16	24	20	483
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13709.1	13709.1	13709.1	13709.1	*13709.1*
2.5°	*13621.0*	*13707.8*	*13605.4*	*13681.7*	*13742.3*
5°	13583.8	13634.1	13463.8	13473.6	*13458.0*
7.5°	13518.6	13506.9	13220.6	13095.4	*13040.6*
10°	13420.2	13342.5	12883.4	12621.9	*12431.5*
12.5°	13293.0	13119.5	12462.8	11631.3	*11114.8*
15°	13144.3	12839.1	11805.4	10039.4	*9279.6*
17.5°	12966.9	12534.5	10730.6	8414.2	*7735.9*
20°	12757.6	12194.7	9362.4	7158.8	*6498.1*
22.5°	12524.1	11781.3	8033.3	5949.7	*5007.3*
25°	12273.0	11241.9	6982.0	4392.3	*3087.3*
27.5°	11982.8	10548.7	5996.0	2587.1	*1575.6*
30°	11675.6	9713.9	4848.8	1391.7	*956.7*
32.5°	11365.8	8767.6	3431.0	869.3	*542.6*
35°	11017.6	7767.2	2034.7	478.7	*232.8*
37.5°	10654.3	6850.3	1202.6	217.8	*149.3*
40°	10249.3	6012.3	772.8	144.8	*146.7*
42.5°	9858.1	5231.0	435.0	142.8	*145.4*
45°	9418.5	4376.0	200.2	144.8	*144.1*
47.5°	8963.9	3489.7	129.8	146.1	*146.1*
50°	8495.0	2495.2	129.1	149.3	*145.4*
52.5°	8000.0	1556.7	134.3	148.7	*119.3*
55°	7471.1	901.3	137.0	123.9	*55.4*
57.5°	6923.3	531.5	138.3	71.1	*31.3*
60°	6352.0	294.1	133.0	52.8	*29.3*
62.5°	5763.1	140.2	105.0	49.6	*28.7*
65°	5148.2	95.2	71.7	45.7	*29.3*
67.5°	4509.7	73.7	56.7	43.0	*30.0*
70°	3870.6	54.8	51.5	43.0	*29.3*
72.5°	3221.0	37.2	43.0	43.7	*29.3*
75°	2562.3	22.2	29.3	38.5	*30.7*
77.5°	1909.5	13.7	22.8	39.8	*37.2*
80°	1285.4	11.7	24.1	37.2	*29.3*
82.5°	754.5	10.4	23.5	28.7	*23.5*
85°	319.6	8.5	15.7	23.5	*19.6*
87.5°	60.0	7.2	12.4	18.9	*17.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)