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-CL-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 (P23768)
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-CL-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:	13652.0 lumens
Efficiency:	N/A
Efficacy:	143.4 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.63 / 0.78
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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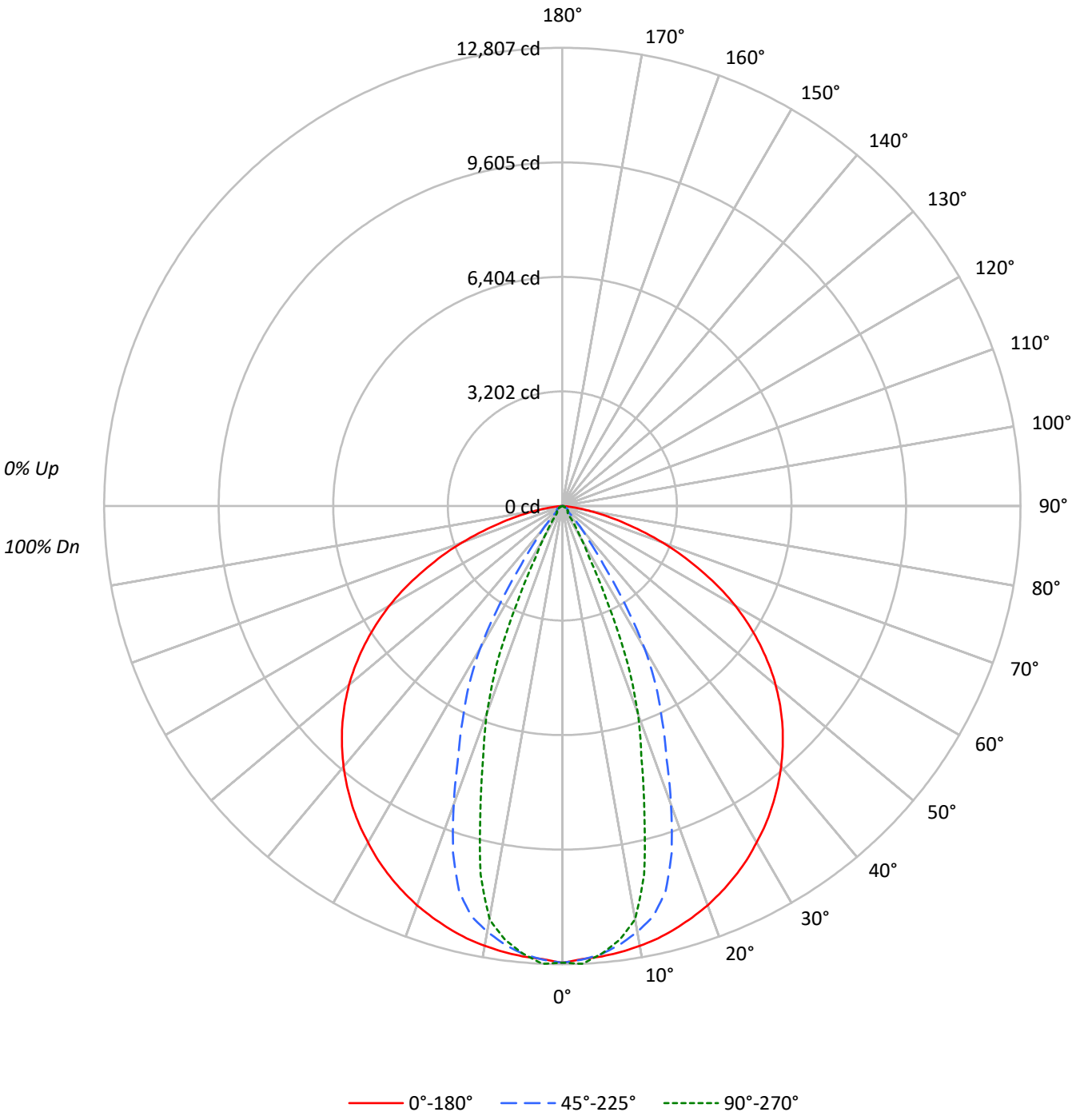
Luminous Intensity Polar Plot



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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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17175	17175	17175
5°	17070	16981	16968
10°	17058	16511	16024
15°	17039	15526	12321
20°	17005	12706	8838
25°	16952	9789	4491
30°	16872	7145	1634
35°	16812	3281	569
40°	16708	1489	392
45°	16560	556	398
50°	16295	403	418
55°	15813	424	319
60°	15027	453	281
65°	13628	345	229
70°	11684	249	211
75°	8931	221	200
80°	5587	208	218
85°	1765	242	292

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1188.4	8.7
10°-20°	2993.7	21.9
20°-30°	3260.3	23.9
30°-40°	2438.9	17.9
40°-50°	1753.6	12.8
50°-60°	1077.0	7.9
60°-70°	619.7	4.5
70°-80°	276.6	2.0
80°-90°	43.9	0.3
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°	7442.4	54.5
0°-40°	9881.2	72.4
0°-60°	12711.8	93.1
0°-90°	13652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12765	12765	12765	12765	12765	
5°	12638	12698	12572	12584	12563	###
15°	12232	11998	11146	9573	8845	3453
25°	11419	10600	6594	4231	3025	5264
35°	10235	7341	1998	587	346	6402
45°	8703	4124	292	216	209	6704
55°	6741	857	181	175	136	6010
65°	4280	94	108	90	72	4237
75°	1718	57	42	44	38	1864
85°	114	11	16	20	19	228
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12765.0	12765.0	12765.0	12765.0	*12765.0*
2.5°	*12676.1*	*12759.1*	*12689.2*	*12751.9*	*12807.4*
5°	12638.3	12697.7	12572.3	12584.0	*12563.1*
7.5°	12572.9	12587.3	12360.6	12273.1	*12230.7*
10°	12485.4	12446.9	12085.0	11876.6	*11728.3*
12.5°	12375.0	12247.6	11742.1	10998.1	*10554.5*
15°	12232.0	11997.5	11146.3	9572.8	*8845.1*
17.5°	12061.5	11736.2	10160.0	7978.3	*7348.6*
20°	11876.6	11447.5	8873.8	6783.6	*6172.2*
22.5°	11658.4	11078.4	7605.3	5641.8	*4802.4*
25°	11418.7	10599.6	6594.1	4230.8	*3025.0*
27.5°	11160.1	9967.9	5658.1	2594.5	*1635.6*
30°	10859.6	9199.1	4598.6	1456.0	*1051.7*
32.5°	10566.3	8302.9	3285.0	970.0	*672.2*
35°	10235.1	7340.7	1997.5	587.2	*346.2*
37.5°	9884.3	6466.1	1250.2	319.4	*239.1*
40°	9512.7	5636.5	847.9	226.7	*223.4*
42.5°	9115.5	4886.0	531.1	215.6	*222.7*
45°	8702.7	4124.4	292.0	216.2	*209.0*
47.5°	8254.6	3297.4	203.8	204.5	*203.8*
50°	7784.9	2365.3	192.7	201.8	*199.9*
52.5°	7278.7	1468.4	193.3	197.3	*177.0*
55°	6741.1	857.0	180.9	175.1	*135.9*
57.5°	6176.1	534.3	177.0	144.4	*122.1*
60°	5584.3	282.2	168.5	130.0	*104.5*
62.5°	4953.9	139.1	135.2	111.0	*85.6*
65°	4280.5	94.1	108.4	90.1	*71.9*
67.5°	3629.9	84.9	81.7	73.8	*62.7*
70°	2970.1	77.7	63.4	64.7	*53.6*
72.5°	2322.8	70.5	51.0	55.5	*45.1*
75°	1717.9	56.8	42.5	43.8	*38.5*
77.5°	1195.4	44.4	33.3	37.2	*35.9*
80°	721.1	28.1	26.8	30.7	*28.1*
82.5°	349.5	18.3	20.9	24.2	*22.2*
85°	114.3	11.1	15.7	20.2	*18.9*
87.5°	14.4	6.5	13.1	17.6	*16.3*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)