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-AI-UNV-L835-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 (P23765)
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-AI-UNV-L835-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:	12758.0 lumens
Efficiency:	N/A
Efficacy:	134.0 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.16 / 1.26
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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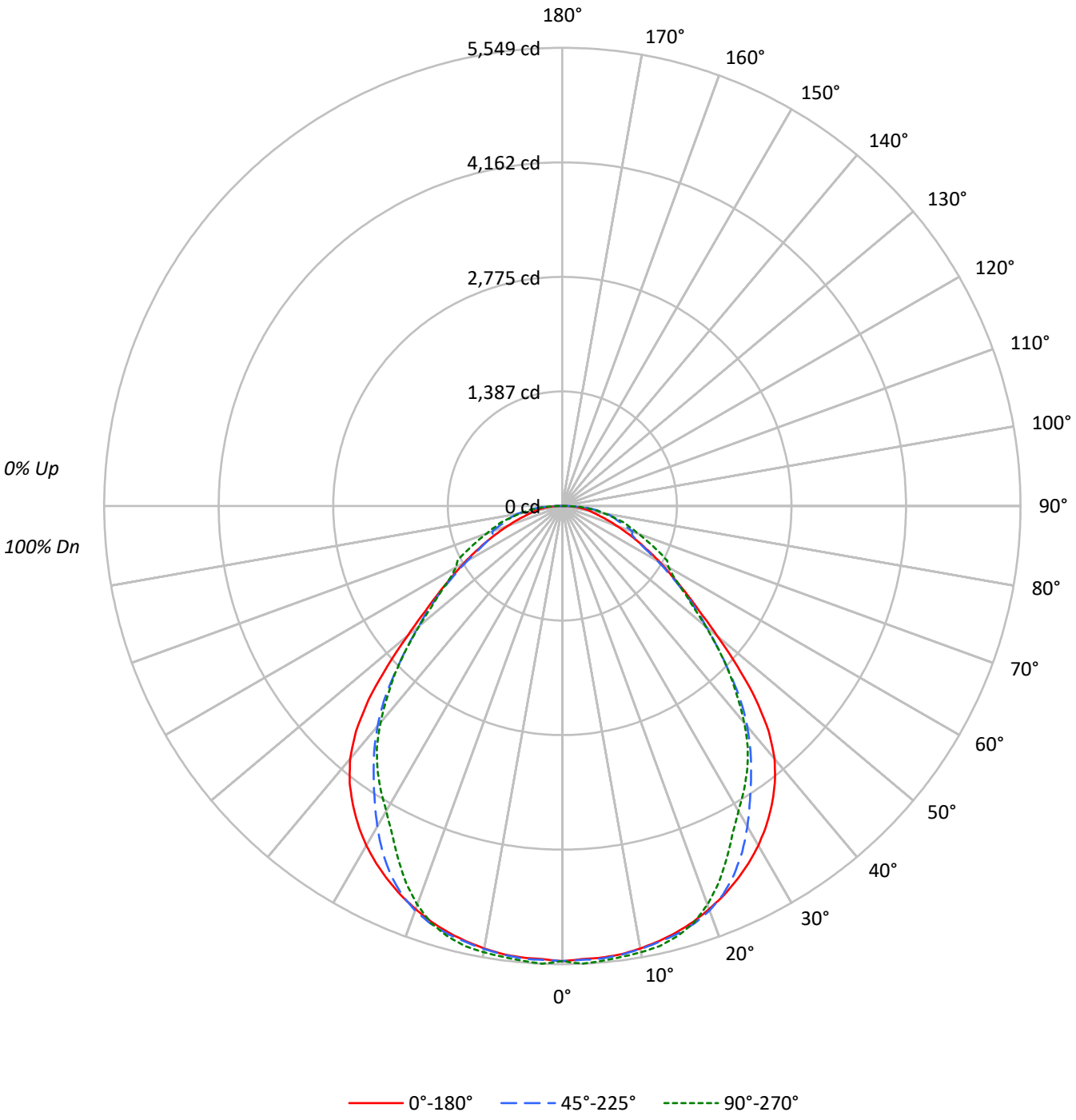
Luminous Intensity Polar Plot



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7416	7416	7416
5°	7416	7432	7468
10°	7434	7444	7498
15°	7446	7473	7510
20°	7438	7466	7355
25°	7419	7308	6990
30°	7376	6963	6624
35°	7264	6545	6408
40°	7022	6119	6019
45°	6311	5464	5444
50°	5119	4760	4727
55°	4250	4171	4170
60°	3680	3573	3994
65°	3189	3169	4026
70°	2750	3556	3838
75°	2466	3644	4001
80°	2563	4289	4014
85°	2910	4943	4587

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	4.1
10°-20°	1515.7	11.9
20°-30°	2251.1	17.6
30°-40°	2555.6	20.0
40°-50°	2284.6	17.9
50°-60°	1579.6	12.4
60°-70°	1042.3	8.2
70°-80°	703.2	5.5
80°-90°	301.2	2.4
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°	4291.6	33.6
0°-40°	6847.2	53.7
0°-60°	10711.4	84.0
0°-90°	12758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5512	5512	5512	5512	5512	
5°	5491	5524	5502	5525	5529	523
15°	5345	5371	5365	5395	5391	1509
25°	4998	5045	4923	4776	4709	2303
35°	4423	4330	3985	3926	3902	2758
45°	3317	3036	2872	2894	2861	2522
55°	1812	1654	1778	1753	1778	1646
65°	1002	889	996	1164	1264	1000
75°	474	597	701	749	770	518
85°	188	262	320	322	297	197
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5511.9	5511.9	5511.9	5511.9	*5511.9*
2.5°	*5493.1*	*5527.5*	*5501.9*	*5525.6*	*5548.7*
5°	5490.6	5524.3	5502.5	5525.0	*5529.3*
7.5°	5475.0	5506.2	5480.6	5502.5	*5507.5*
10°	5441.3	5478.1	5448.2	5481.9	*5488.1*
12.5°	5397.6	5435.1	5408.9	5455.1	*5457.5*
15°	5345.2	5370.8	5365.2	5395.1	*5391.4*
17.5°	5279.0	5308.4	5304.0	5311.5	*5294.0*
20°	5194.8	5227.9	5214.1	5179.8	*5136.7*
22.5°	5104.3	5144.2	5089.9	5003.2	*4942.6*
25°	4997.6	5045.0	4922.7	4776.0	*4708.6*
27.5°	4879.6	4922.0	4718.6	4538.8	*4468.9*
30°	4747.3	4765.4	4482.0	4311.0	*4263.6*
32.5°	4594.4	4568.1	4229.2	4116.3	*4088.8*
35°	4422.7	4329.7	3984.6	3926.5	*3901.5*
37.5°	4229.2	4058.8	3743.0	3716.2	*3690.0*
40°	3997.7	3746.1	3484.0	3466.5	*3426.6*
42.5°	3698.7	3406.0	3196.3	3175.7	*3140.1*
45°	3316.7	3035.9	2871.7	2893.5	*2861.1*
47.5°	2877.3	2664.5	2560.3	2620.2	*2560.3*
50°	2445.4	2302.5	2273.8	2328.1	*2258.2*
52.5°	2091.5	1962.9	2022.2	2031.6	*1989.8*
55°	1811.9	1654.0	1778.2	1753.2	*1777.6*
57.5°	1568.5	1391.8	1544.8	1516.1	*1599.7*
60°	1367.5	1169.0	1327.6	1321.3	*1484.2*
62.5°	1170.3	1011.7	1139.1	1230.8	*1431.2*
65°	1001.8	889.4	995.5	1164.0	*1264.5*
67.5°	840.1	797.7	910.6	1004.3	*1114.1*
70°	699.0	720.9	903.8	886.3	*975.5*
72.5°	580.5	654.7	797.7	800.8	*863.8*
75°	474.4	596.7	700.9	749.0	*769.6*
77.5°	394.5	541.1	632.9	649.7	*629.8*
80°	330.8	476.8	553.6	546.1	*518.0*
82.5°	267.1	361.4	436.3	443.1	*410.1*
85°	188.5	262.1	320.2	322.1	*297.1*
87.5°	101.1	161.7	194.1	199.7	*184.7*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)