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-LD5-36SE-W-CL-UNV-L835-ED3-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 (P23762)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-36SE-W-CL-UNV-L835-ED3-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:	30429.0 lumens
Efficiency:	N/A
Efficacy:	131.2 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.41
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	232
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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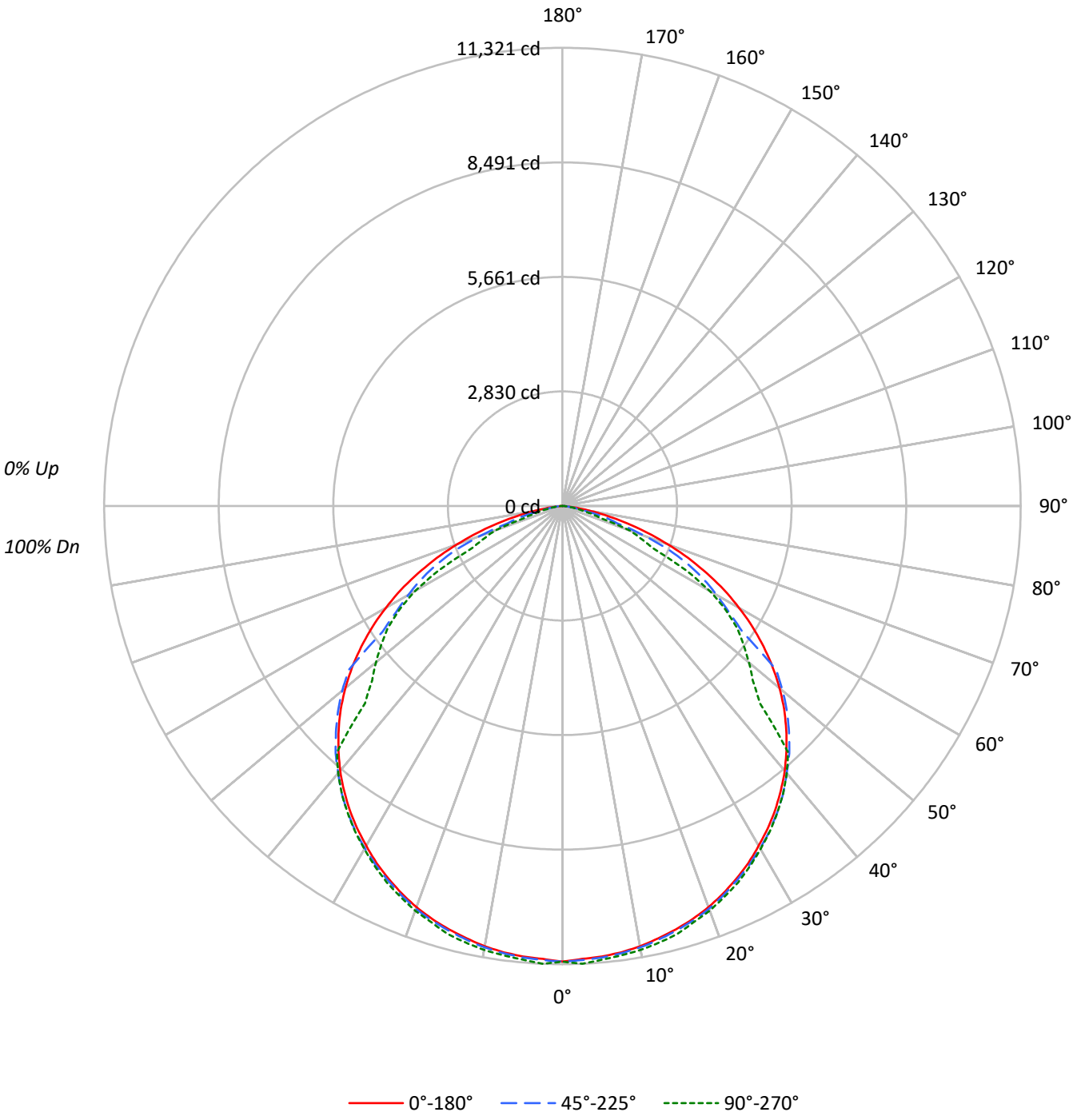
Luminous Intensity Polar Plot



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15144	15144	15144
5°	15089	15122	15197
10°	15088	15131	15219
15°	15087	15132	15255
20°	15106	15162	15233
25°	15088	15145	15237
30°	15060	15170	15205
35°	15053	15190	15201
40°	15006	15138	15138
45°	14877	15057	13119
50°	14647	14868	12588
55°	14232	12727	12364
60°	13564	11831	11296
65°	12544	10982	7823
70°	10923	8545	6971
75°	8628	5735	3748
80°	5553	2740	2336
85°	2285	1672	1840

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1067.7	3.5
10°-20°	3077.5	10.1
20°-30°	4718.2	15.5
30°-40°	5782.9	19.0
40°-50°	5945.3	19.5
50°-60°	5074.0	16.7
60°-70°	3354.5	11.0
70°-80°	1242.8	4.1
80°-90°	166.2	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°	8863.4	29.1
0°-40°	14646.2	48.1
0°-60°	25665.5	84.3
0°-90°	30429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11256	11256	11256	11256	11256	
5°	11172	11250	11197	11240	11252	###
15°	10831	10896	10864	10946	10951	3059
25°	10163	10217	10202	10294	10263	4686
35°	9164	9227	9248	9305	9255	5732
45°	7818	7897	7913	7901	6895	6025
55°	6067	6178	5426	5268	5271	5413
65°	3940	3973	3449	2837	2457	3885
75°	1660	1454	1103	741	721	1780
85°	148	106	108	118	119	245
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11255.6	11255.6	11255.6	11255.6	*11255.6*
2.5°	*11200.8*	*11270.6*	*11229.5*	*11281.6*	*11321.4*
5°	11172.0	11250.1	11196.6	11240.5	*11251.5*
7.5°	11122.6	11195.3	11145.9	11203.5	*11195.3*
10°	11043.2	11108.9	11074.7	11135.0	*11139.1*
12.5°	10941.7	11007.5	10976.0	11050.0	*11048.6*
15°	10830.7	10896.5	10863.6	10945.8	*10951.3*
17.5°	10700.5	10760.8	10736.2	10811.5	*10781.4*
20°	10549.8	10601.9	10589.5	10660.8	*10638.9*
22.5°	10364.8	10418.2	10405.9	10488.1	*10455.2*
25°	10163.3	10216.8	10201.7	10293.5	*10263.4*
27.5°	9945.4	9996.1	9994.8	10081.1	*10034.5*
30°	9693.3	9760.4	9764.5	9841.3	*9786.4*
32.5°	9443.8	9506.9	9524.7	9580.9	*9534.3*
35°	9164.3	9227.3	9247.9	9305.4	*9254.7*
37.5°	8862.8	8916.2	8953.2	8995.7	*8955.9*
40°	8543.4	8591.4	8618.8	8670.9	*8618.8*
42.5°	8187.1	8255.6	8294.0	8331.0	*8246.0*
45°	7818.5	7896.6	7913.0	7900.7	*6894.8*
47.5°	7427.9	7512.9	7522.4	6560.4	*6375.4*
50°	6997.6	7104.5	7103.1	6062.9	*6013.6*
52.5°	6549.4	6652.2	6648.1	5673.7	*5640.8*
55°	6067.0	6178.0	5425.6	5268.0	*5270.8*
57.5°	5575.0	5654.5	4867.9	4874.7	*4784.3*
60°	5040.5	5115.9	4396.4	4353.9	*4197.7*
62.5°	4504.7	4536.2	3940.1	3733.1	*3435.7*
65°	3940.1	3973.0	3449.4	2836.8	*2457.2*
67.5°	3360.4	3393.3	2862.9	2110.5	*2081.7*
70°	2776.5	2507.9	2172.2	1758.3	*1772.0*
72.5°	2201.0	1926.9	1419.8	1362.2	*984.0*
75°	1659.6	1454.1	1103.2	741.4	*720.9*
77.5°	1155.3	1001.8	590.7	505.7	*472.8*
80°	716.7	503.0	353.6	313.8	*301.5*
82.5°	363.2	289.2	191.9	191.9	*191.9*
85°	148.0	105.5	108.3	117.9	*119.2*
87.5°	31.5	42.5	52.1	53.4	*52.1*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)