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-N-UNV-L735-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 (P23767)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-36SE-N-UNV-L735-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:	32885.0 lumens
Efficiency:	N/A
Efficacy:	141.7 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):	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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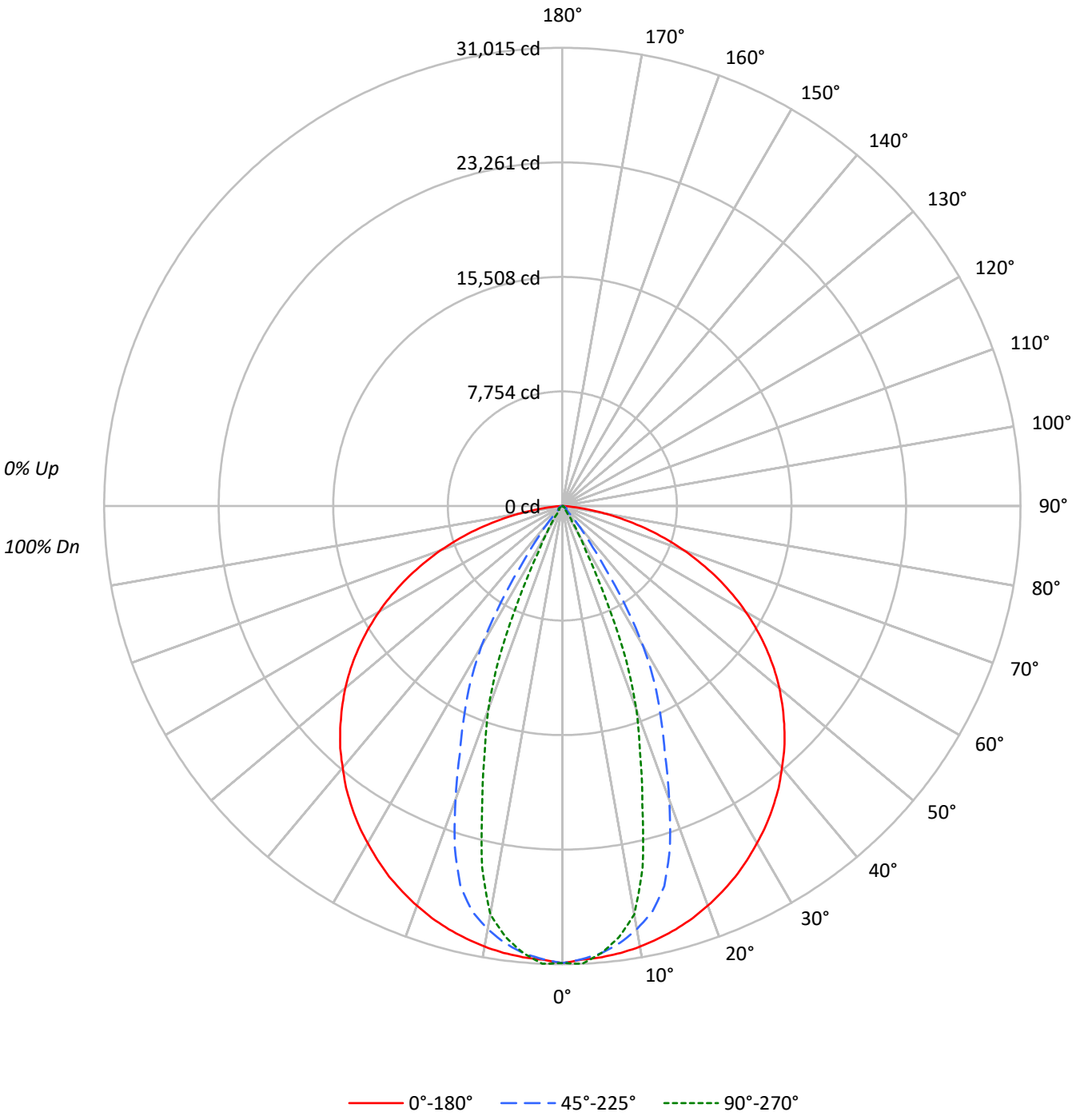
Luminous Intensity Polar Plot



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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	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°	41629	41629	41629
5°	41406	41041	41023
10°	41380	39725	38332
15°	41322	37113	29172
20°	41226	30254	20999
25°	41121	23393	10344
30°	40939	17002	3355
35°	40842	7543	863
40°	40629	3063	582
45°	40447	860	619
50°	40132	610	687
55°	39554	725	293
60°	38577	808	178
65°	36991	515	211
70°	34365	458	260
75°	30063	344	360
80°	22478	422	513
85°	11134	545	682

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2871.2	8.7
10°-20°	7179.6	21.8
20°-30°	7776.6	23.6
30°-40°	5758.9	17.5
40°-50°	4147.9	12.6
50°-60°	2568.3	7.8
60°-70°	1579.5	4.8
70°-80°	832.6	2.5
80°-90°	170.4	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°	17827.4	54.2
0°-40°	23586.2	71.7
0°-60°	30302.5	92.1
0°-90°	32885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30940	30940	30940	30940	30940	
5°	30657	30770	30386	30408	30373	###
15°	29665	28976	26643	22658	20943	8374
25°	27699	25372	15758	9913	6968	12763
35°	24865	17530	4592	1080	525	15556
45°	21256	9876	452	327	325	16393
55°	16862	2034	309	280	125	15052
65°	11619	215	162	103	66	11464
75°	5783	50	66	87	69	6108
85°	721	19	35	53	44	###
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30939.7	30939.7	30939.7	30939.7	*30939.7*
2.5°	*30741.0*	*30936.8*	*30705.7*	*30877.9*	*31014.8*
5°	30657.1	30770.4	30386.3	30408.4	*30373.0*
7.5°	30509.9	30483.4	29837.3	29554.7	*29431.1*
10°	30287.7	30112.5	29076.3	28486.1	*28056.4*
12.5°	30000.7	29609.2	28127.0	26250.4	*25084.7*
15°	29665.1	28976.3	26643.4	22657.6	*20942.9*
17.5°	29264.7	28288.9	24217.8	18989.8	*17459.1*
20°	28792.3	27522.1	21129.8	16156.5	*14665.5*
22.5°	28265.4	26588.9	18130.2	13427.7	*11300.8*
25°	27698.7	25371.7	15757.6	9912.9	*6967.7*
27.5°	27043.7	23807.1	13532.2	5838.8	*3556.0*
30°	26350.5	21923.2	10943.2	3140.9	*2159.2*
32.5°	25651.4	19787.5	7743.4	1962.0	*1224.6*
35°	24865.4	17529.7	4592.2	1080.3	*525.4*
37.5°	24045.6	15460.3	2714.1	491.6	*337.1*
40°	23131.6	13569.0	1744.1	326.8	*331.2*
42.5°	22248.4	11805.7	981.7	322.3	*328.2*
45°	21256.4	9876.1	451.9	326.8	*325.3*
47.5°	20230.5	7875.9	292.9	329.7	*329.7*
50°	19172.3	5631.3	291.4	337.1	*328.2*
52.5°	18055.2	3513.3	303.2	335.6	*269.3*
55°	16861.5	2034.1	309.1	279.7	*125.1*
57.5°	15625.1	1199.6	312.0	160.4	*70.6*
60°	14335.8	663.8	300.3	119.2	*66.2*
62.5°	13006.7	316.4	237.0	111.9	*64.8*
65°	11618.8	214.9	161.9	103.0	*66.2*
67.5°	10177.8	166.3	128.1	97.1	*67.7*
70°	8735.4	123.6	116.3	97.1	*66.2*
72.5°	7269.5	83.9	97.1	98.6	*66.2*
75°	5782.9	50.0	66.2	86.8	*69.2*
77.5°	4309.6	30.9	51.5	89.8	*83.9*
80°	2901.0	26.5	54.5	83.9	*66.2*
82.5°	1702.9	23.5	53.0	64.8	*53.0*
85°	721.2	19.1	35.3	53.0	*44.2*
87.5°	135.4	16.2	28.0	42.7	*38.3*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)