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-CLI-UNV-L740-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 (P23766)
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-CLI-UNV-L740-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:	32091.0 lumens
Efficiency:	N/A
Efficacy:	138.3 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.37
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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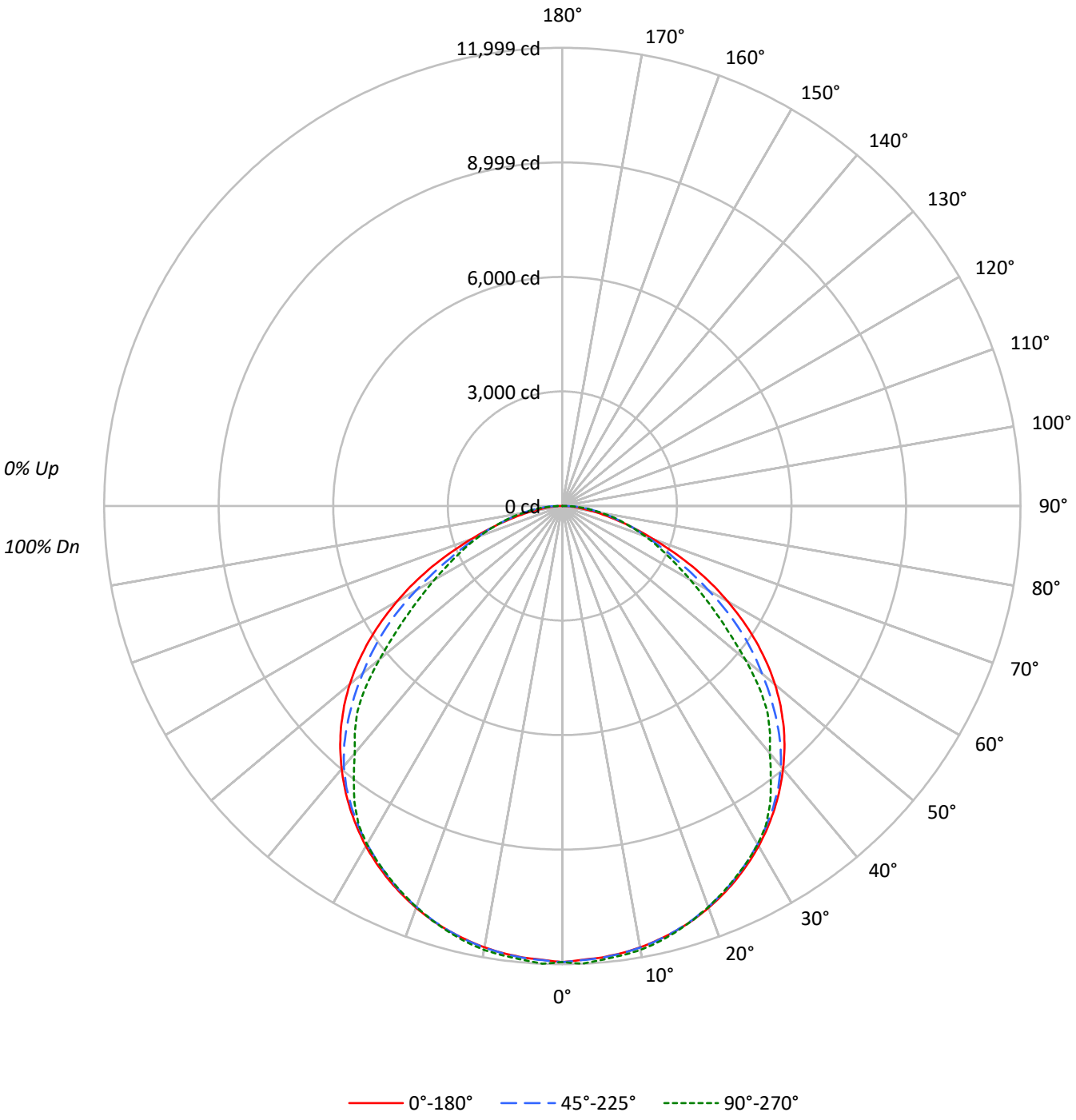
Luminous Intensity Polar Plot



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16071	16071	16071
5°	16028	16040	16111
10°	16037	16045	16129
15°	16039	16037	16075
20°	16035	15998	16002
25°	16010	15951	15932
30°	15984	15888	15897
35°	15910	15811	15587
40°	15796	15635	14847
45°	15596	15097	14436
50°	15220	14293	13074
55°	14527	13367	11561
60°	13482	11927	10426
65°	11983	10326	9587
70°	9945	9229	9037
75°	8043	8446	8550
80°	6389	8078	8044
85°	5003	8678	8279

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.8	3.5
10°-20°	3258.2	10.2
20°-30°	4968.2	15.5
30°-40°	6010.9	18.7
40°-50°	6088.5	19.0
50°-60°	5032.2	15.7
60°-70°	3323.7	10.4
70°-80°	1733.1	5.4
80°-90°	543.3	1.7
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°	9359.2	29.2
0°-40°	15370.1	47.9
0°-60°	26490.8	82.5
0°-90°	32091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11944	11944	11944	11944	11944	
5°	11867	11939	11876	11927	11929	###
15°	11514	11573	11513	11549	11540	3251
25°	10784	10827	10744	10772	10731	4973
35°	9686	9699	9626	9613	9490	6058
45°	8196	8175	7934	7687	7587	6311
55°	6193	6101	5698	5145	4928	5520
65°	3764	3655	3244	3033	3011	3718
75°	1547	1574	1625	1646	1645	1686
85°	324	417	562	558	536	393
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11944.5	11944.5	11944.5	11944.5	*11944.5*
2.5°	*11894.3*	*11964.5*	*11905.7*	*11957.4*	*11998.9*
5°	11867.0	11938.7	11875.6	11927.2	*11928.7*
7.5°	11814.0	11885.7	11821.1	11872.8	*11871.3*
10°	11738.0	11805.4	11743.7	11805.4	*11805.4*
12.5°	11634.7	11700.7	11640.5	11697.8	*11689.2*
15°	11514.3	11573.1	11512.8	11548.7	*11540.1*
17.5°	11372.3	11425.4	11358.0	11388.1	*11370.9*
20°	11198.8	11247.6	11173.0	11211.7	*11175.9*
22.5°	11003.8	11049.7	10973.7	11002.4	*10962.2*
25°	10784.4	10827.4	10744.3	10771.5	*10731.4*
27.5°	10547.8	10586.5	10493.3	10526.3	*10494.8*
30°	10288.3	10306.9	10226.6	10269.6	*10232.4*
32.5°	9998.6	10010.1	9939.8	9978.6	*9915.5*
35°	9686.0	9699.0	9625.8	9612.9	*9489.6*
37.5°	9351.9	9357.7	9288.9	9172.7	*8969.1*
40°	8993.5	8990.6	8901.7	8633.6	*8452.9*
42.5°	8610.6	8609.2	8452.9	8147.5	*8044.2*
45°	8196.2	8174.7	7933.8	7687.2	*7586.8*
47.5°	7751.7	7728.8	7391.8	7195.3	*6967.4*
50°	7271.3	7231.2	6828.3	6560.1	*6246.1*
52.5°	6753.7	6692.0	6281.9	5848.9	*5552.1*
55°	6193.0	6101.3	5698.3	5144.9	*4928.3*
57.5°	5609.4	5473.2	5081.8	4542.6	*4366.2*
60°	5010.1	4858.1	4432.2	3989.1	*3874.4*
62.5°	4393.5	4242.9	3808.5	3474.4	*3411.3*
65°	3764.0	3655.0	3243.5	3032.7	*3011.2*
67.5°	3118.7	3080.0	2766.0	2658.5	*2649.9*
70°	2528.0	2520.8	2345.9	2291.4	*2297.1*
72.5°	2020.4	2011.8	1986.0	1958.7	*1960.2*
75°	1547.2	1574.4	1624.6	1646.1	*1644.7*
77.5°	1154.3	1210.2	1316.3	1359.3	*1352.2*
80°	824.5	907.7	1042.5	1082.6	*1038.1*
82.5°	549.2	636.7	795.8	801.6	*765.7*
85°	324.1	417.3	562.1	557.8	*536.3*
87.5°	160.6	250.9	337.0	322.6	*308.3*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)