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-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 (P23760)
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-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:	34544.0 lumens
Efficiency:	N/A
Efficacy:	148.9 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.42
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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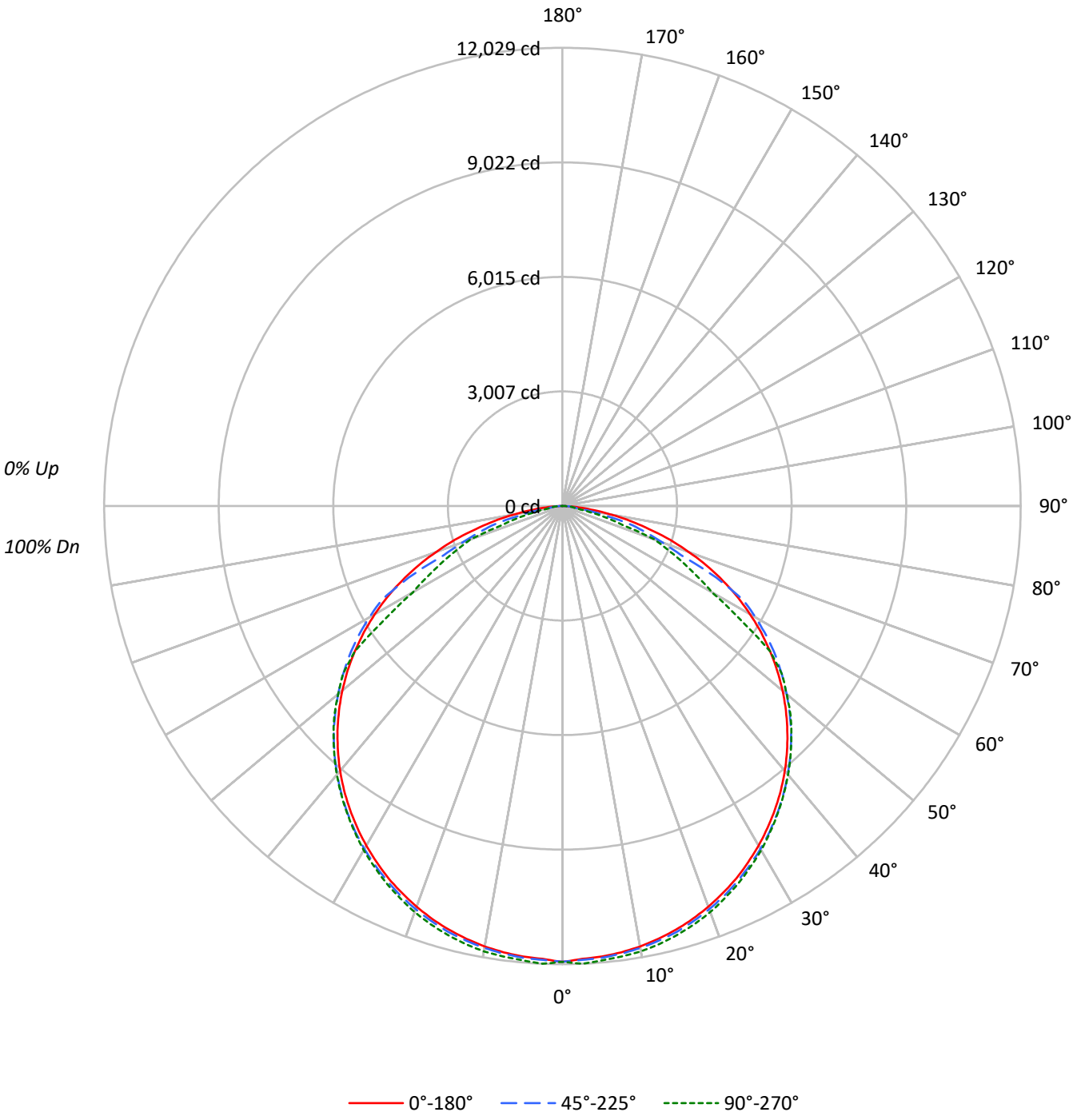
Luminous Intensity Polar Plot



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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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16100	16100	16100
5°	16033	16078	16169
10°	16042	16099	16221
15°	16038	16124	16236
20°	16030	16133	16246
25°	16024	16139	16229
30°	15996	16152	16212
35°	15976	16160	16181
40°	15947	16159	16184
45°	15887	16152	16171
50°	15792	16083	16080
55°	15608	15998	15601
60°	15318	15762	12207
65°	14807	14186	10998
70°	13872	10915	10136
75°	12283	9516	6317
80°	10115	5602	2824
85°	6666	3433	3699

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1135.5	3.3
10°-20°	3276.0	9.5
20°-30°	5022.5	14.5
30°-40°	6159.6	17.8
40°-50°	6540.4	18.9
50°-60°	5973.9	17.3
60°-70°	4160.2	12.0
70°-80°	1940.3	5.6
80°-90°	335.7	1.0
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°	9433.9	27.3
0°-40°	15593.5	45.1
0°-60°	28107.8	81.4
0°-90°	34544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11966	11966	11966	11966	11966	
5°	11871	11954	11904	11961	11972	###
15°	11514	11594	11576	11646	11656	3251
25°	10794	10888	10871	10952	10931	4974
35°	9726	9838	9838	9904	9851	6086
45°	8349	8475	8488	8543	8498	6439
55°	6654	6787	6820	6831	6651	5942
65°	4651	4794	4456	3543	3454	4589
75°	2363	2512	1830	1268	1215	2526
85°	432	284	222	238	240	558
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11965.7	11965.7	11965.7	11965.7	*11965.7*
2.5°	*11902.6*	*11978.6*	*11928.4*	*11982.9*	*12028.8*
5°	11871.0	11954.3	11904.0	11961.4	*11971.5*
7.5°	11819.4	11898.3	11852.4	11915.5	*11931.3*
10°	11741.9	11819.4	11783.5	11858.1	*11872.5*
12.5°	11637.2	11716.1	11688.9	11770.6	*11780.7*
15°	11513.8	11594.2	11575.5	11645.8	*11655.9*
17.5°	11368.9	11452.2	11430.6	11505.2	*11512.4*
20°	11195.4	11285.7	11267.1	11354.6	*11346.0*
22.5°	11000.3	11096.4	11082.0	11169.5	*11143.7*
25°	10793.7	10888.4	10871.2	10951.5	*10931.4*
27.5°	10551.2	10656.0	10640.2	10717.7	*10686.1*
30°	10295.9	10402.0	10396.3	10466.6	*10435.0*
32.5°	10020.5	10133.8	10128.0	10196.9	*10148.1*
35°	9726.4	9838.3	9838.3	9904.3	*9851.2*
37.5°	9415.1	9528.4	9529.8	9593.0	*9542.7*
40°	9079.4	9192.7	9199.9	9260.1	*9214.2*
42.5°	8726.5	8849.8	8855.6	8910.1	*8867.1*
45°	8349.2	8475.4	8488.3	8542.8	*8498.4*
47.5°	7954.7	8082.4	8093.8	8152.6	*8121.1*
50°	7544.4	7667.8	7683.5	7732.3	*7682.1*
52.5°	7111.2	7237.4	7258.9	7289.0	*7266.1*
55°	6653.5	6786.9	6819.9	6831.4	*6650.7*
57.5°	6180.1	6316.4	6348.0	6084.0	*5503.0*
60°	5692.4	5827.2	5857.3	4949.3	*4536.1*
62.5°	5184.5	5316.5	5349.5	4101.4	*3969.4*
65°	4650.9	4794.3	4455.8	3543.4	*3454.4*
67.5°	4102.9	4250.6	3369.8	3037.0	*2983.9*
70°	3526.2	3675.4	2774.5	2589.4	*2576.5*
72.5°	2972.4	3082.9	2276.7	1962.5	*1652.6*
75°	2362.7	2511.9	1830.5	1268.2	*1215.1*
77.5°	1831.9	1583.8	1104.6	929.6	*733.1*
80°	1305.5	1058.7	723.0	385.9	*364.4*
82.5°	827.7	691.5	284.0	291.2	*304.1*
85°	431.8	284.0	222.4	238.1	*239.6*
87.5°	139.2	121.9	133.4	132.0	*130.5*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)