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-WG-UNV-L850-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-36SE-W-WG-UNV-L850-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:	34146.0 lumens
Efficiency:	N/A
Efficacy:	147.2 lumens/watt
Spacing Criteria (0/90/45):	1.29 / 1.31 / 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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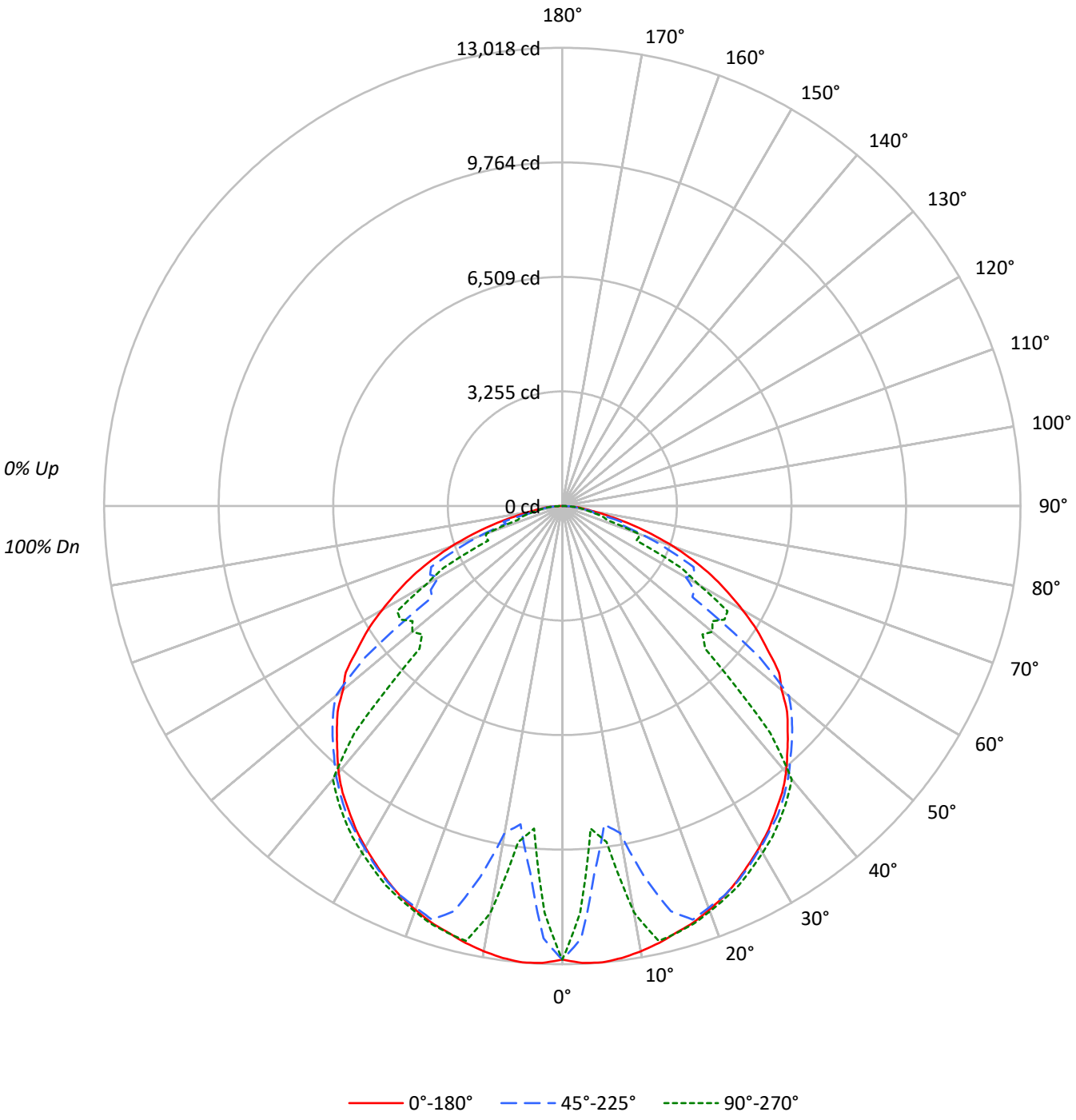
Luminous Intensity Polar Plot



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17342	17342	17342
5°	17583	14126	12423
10°	17553	12882	16022
15°	17475	16603	17490
20°	17475	17396	17550
25°	17444	17483	17643
30°	17393	17451	17676
35°	17366	17558	17763
40°	17368	17557	17809
45°	17232	17569	10918
50°	17037	17605	11636
55°	16677	10586	13189
60°	15909	10912	12077
65°	14906	13101	7389
70°	13163	9925	9058
75°	10488	9022	6281
80°	7225	6520	5398
85°	6924	6019	5710

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1030.7	3.0
10°-20°	3228.9	9.5
20°-30°	5312.3	15.6
30°-40°	6679.5	19.6
40°-50°	6550.9	19.2
50°-60°	5427.8	15.9
60°-70°	3828.3	11.2
70°-80°	1670.3	4.9
80°-90°	417.3	1.2
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°	9571.9	28.0
0°-40°	16251.4	47.6
0°-60°	28230.1	82.7
0°-90°	34146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12889	12889	12889	12889	12889	
5°	13018	12117	10458	9483	9198	###
15°	12545	8712	11920	12595	12556	3548
25°	11750	10751	11776	11855	11884	5416
35°	10573	10566	10690	10761	10815	6624
45°	9056	9084	9233	8178	5738	6990
55°	7110	7342	4513	5131	5622	6361
65°	4682	4958	4115	3166	2321	4604
75°	2017	1977	1735	1134	1208	2163
85°	448	399	390	373	370	465
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*12889.0*	12889.0	12889.0	12889.0	12889.0
2.5°	*12995.3*	12725.6	12297.2	11757.8	11566.7
5°	*13018.5*	*12116.9*	*10458.5*	*9483.0*	*9197.8*
7.5°	*12952.2*	11011.8	9117.7	9322.7	9624.8
10°	*12847.4*	10040.9	9429.0	11093.5	11726.9
12.5°	*12713.3*	9177.8	10802.2	12531.4	12657.8
15°	*12545.3*	8712.4	11919.6	12594.6	12556.1
17.5°	*12403.5*	8985.2	12320.3	12468.3	12440.5
20°	*12204.7*	9529.2	12149.2	12267.9	12257.1
22.5°	*12004.4*	10173.4	11987.4	12072.2	12072.2
25°	*11750.1*	10751.4	11776.3	11854.9	11884.1
27.5°	*11471.1*	11084.3	11512.7	11577.4	11629.8
30°	*11195.2*	11132.0	11232.2	11315.4	11377.1
32.5°	*10903.9*	10879.3	10957.9	11045.7	11124.3
35°	*10572.6*	10566.4	10689.7	10760.6	10814.6
37.5°	*10261.3*	10239.7	10353.7	10452.4	10494.0
40°	*9888.3*	9888.3	9996.2	10096.4	10139.5
42.5°	*9462.9*	9523.0	9606.3	9709.5	8744.7
45°	*9056.1*	9083.8	9233.3	8177.6	5737.9
47.5°	*8664.6*	8700.0	8841.8	5257.0	5400.3
50°	*8139.0*	8299.3	8410.3	5241.6	5559.1
52.5°	*7755.3*	7824.6	7060.2	5189.2	5368.0
55°	*7109.5*	7342.2	4512.6	5130.6	5622.3
57.5°	*6557.8*	6727.3	4437.1	5257.0	5562.2
60°	*5912.0*	6170.9	4054.9	5072.1	4488.0
62.5°	*5292.5*	5539.1	4233.7	3991.7	3800.6
65°	*4682.1*	4958.0	4115.0	3165.6	2321.0
67.5°	*4013.3*	3755.9	3282.7	2230.1	2347.2
70°	*3345.9*	2623.1	2522.9	2493.7	2302.5
72.5°	*2660.1*	1914.2	1675.3	1871.0	1339.3
75°	*2017.4*	1977.4	1735.4	1134.3	1208.3
77.5°	*1399.4*	1427.1	929.3	1106.6	918.6
80°	*932.4*	807.6	841.5	705.9	696.6
82.5°	*645.8*	659.6	553.3	536.3	544.0
85°	*448.5*	399.2	389.9	373.0	369.9
87.5°	*149.5*	174.2	161.8	146.4	155.7
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)