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-LD5-12SE-N-CLI-UNV-L740-ED1-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 (P23769)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-12SE-N-CLI-UNV-L740-ED1-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:	9624.0 lumens
Efficiency:	N/A
Efficacy:	125.6 lumens/watt
Spacing Criteria (0/90/45):	1.24 / 0.64 / 0.78
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	76.6
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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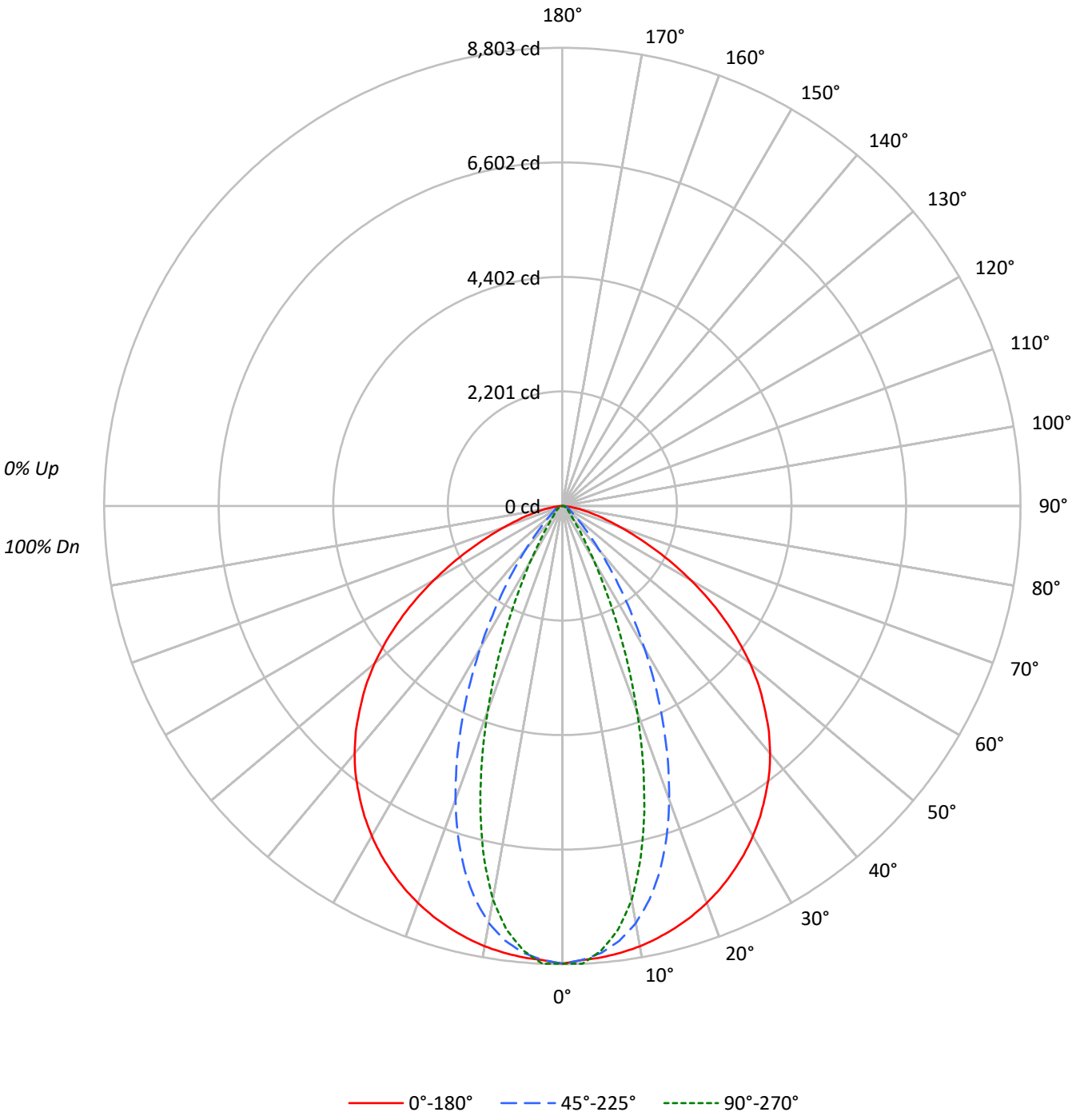
Luminous Intensity Polar Plot



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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	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11828	11828	11828
5°	11757	11640	11579
10°	11737	11113	10486
15°	11690	10101	8469
20°	11620	8595	6003
25°	11516	6778	3627
30°	11376	4892	1864
35°	11171	3198	931
40°	10906	1921	543
45°	10453	1147	406
50°	9859	750	341
55°	8923	569	298
60°	7668	485	272
65°	6168	442	257
70°	4647	474	255
75°	3418	450	263
80°	2500	449	287
85°	1873	543	372

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.6	8.4
10°-20°	2014.1	20.9
20°-30°	2230.9	23.2
30°-40°	1787.3	18.6
40°-50°	1275.9	13.3
50°-60°	819.6	8.5
60°-70°	444.1	4.6
70°-80°	189.8	2.0
80°-90°	52.7	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°	5054.6	52.5
0°-40°	6841.9	71.1
0°-60°	8937.4	92.9
0°-90°	9624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8791	8791	8791	8791	8791	
5°	8705	8737	8618	8591	8573	827
15°	8392	8130	7252	6409	6080	2368
25°	7757	6840	4565	2974	2443	3573
35°	6801	4919	1947	785	567	4252
45°	5493	2840	603	256	214	4234
55°	3804	1270	243	149	127	3390
65°	1937	521	139	96	81	1940
75°	658	191	87	60	50	731
85°	121	50	35	29	24	148
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8790.8	8790.8	8790.8	8790.8	*8790.8*
2.5°	*8733.0*	*8787.6*	*8728.8*	*8765.4*	*8802.9*
5°	8704.7	8737.1	8618.1	8590.8	*8572.7*
7.5°	8655.6	8646.4	8422.7	8277.8	*8207.9*
10°	8590.8	8515.8	8133.8	7815.3	*7675.4*
12.5°	8498.2	8343.6	7742.6	7183.2	*6946.2*
15°	8392.2	8129.6	7251.8	6408.6	*6079.9*
17.5°	8265.3	7879.6	6665.1	5578.0	*5144.1*
20°	8115.3	7577.7	6003.0	4695.4	*4192.2*
22.5°	7947.7	7229.5	5294.1	3815.7	*3275.8*
25°	7756.9	6839.7	4565.3	2974.4	*2442.9*
27.5°	7550.9	6406.8	3840.7	2222.5	*1737.7*
30°	7322.1	5938.2	3148.5	1602.5	*1199.7*
32.5°	7072.6	5440.0	2505.4	1127.0	*820.5*
35°	6800.8	4919.1	1947.0	785.3	*566.7*
37.5°	6522.5	4387.5	1470.5	555.2	*406.5*
40°	6209.0	3857.9	1093.6	406.5	*309.3*
42.5°	5872.4	3338.3	809.4	313.0	*250.5*
45°	5493.2	2839.7	602.8	256.5	*213.5*
47.5°	5125.6	2374.8	457.9	218.5	*185.7*
50°	4709.8	1955.3	358.4	190.8	*163.0*
52.5°	4268.5	1586.3	290.8	168.1	*143.5*
55°	3803.7	1269.6	242.6	149.1	*126.9*
57.5°	3332.8	1005.7	207.4	132.9	*113.0*
60°	2849.4	804.3	180.1	119.0	*100.9*
62.5°	2377.6	643.1	157.4	107.0	*90.3*
65°	1937.3	521.4	138.9	95.8	*80.6*
67.5°	1530.3	412.1	129.6	86.1	*72.7*
70°	1181.2	320.9	120.4	76.9	*64.8*
72.5°	895.0	246.3	106.5	68.5	*57.4*
75°	657.5	190.8	86.6	60.2	*50.5*
77.5°	470.4	146.8	70.4	52.3	*43.5*
80°	322.7	109.3	57.9	44.9	*37.0*
82.5°	209.7	77.3	46.8	37.0	*30.6*
85°	121.3	50.5	35.2	29.2	*24.1*
87.5°	52.3	27.8	24.1	21.8	*18.5*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)