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-LD5-24SE-W-UNV-L740-ED2-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-LD5-24SE-W-UNV-L740-ED2-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:	23104.0 lumens
Efficiency:	N/A
Efficacy:	150.0 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):	154
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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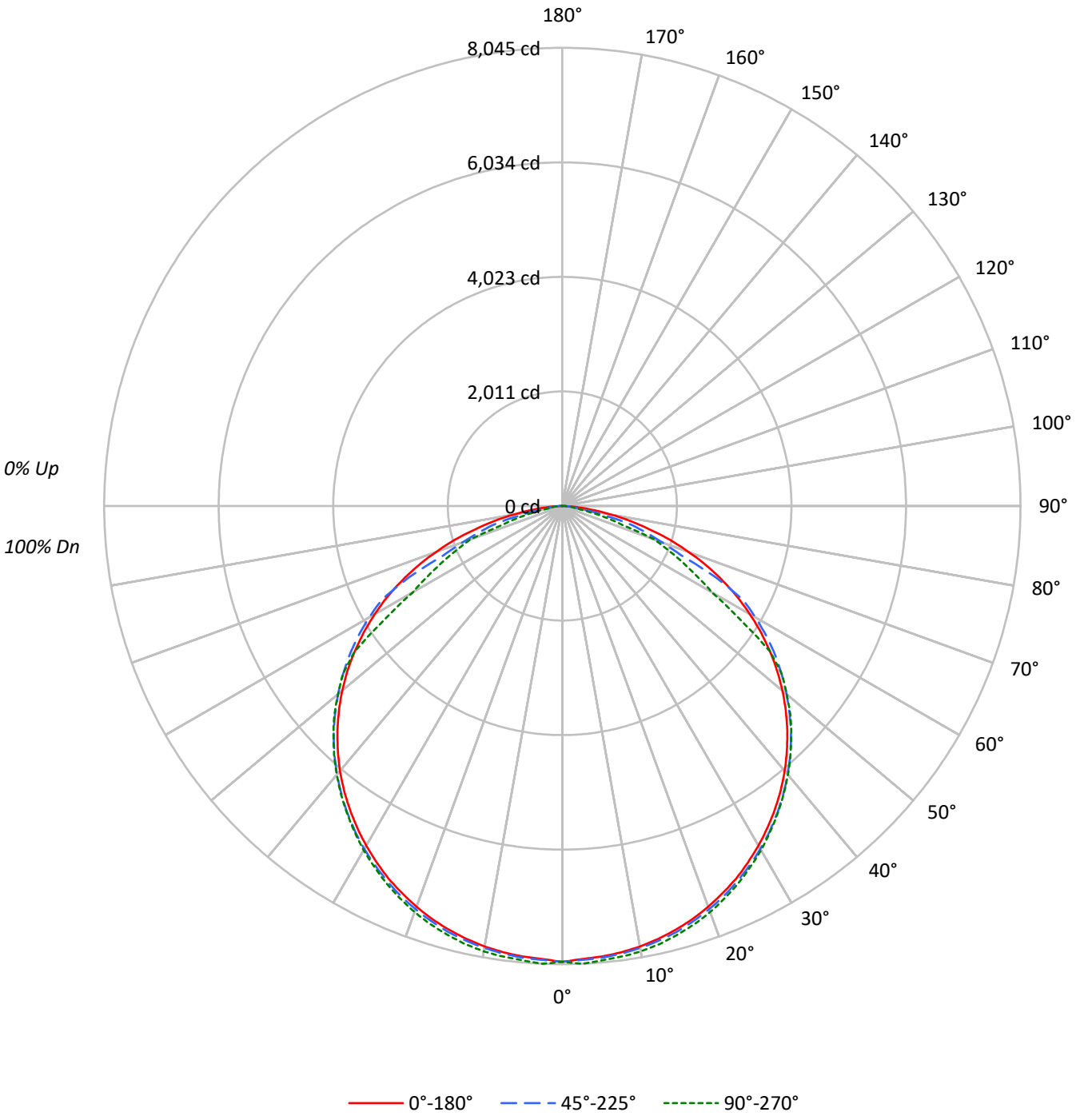
Luminous Intensity Polar Plot



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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°	10768	10768	10768
5°	10724	10753	10814
10°	10730	10768	10849
15°	10727	10784	10859
20°	10721	10790	10866
25°	10717	10794	10854
30°	10699	10803	10843
35°	10685	10808	10822
40°	10666	10807	10824
45°	10626	10803	10816
50°	10562	10757	10755
55°	10439	10700	10434
60°	10245	10542	8164
65°	9903	9488	7356
70°	9278	7300	6779
75°	8215	6365	4225
80°	6765	3747	1888
85°	4458	2296	2473

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.4	3.3
10°-20°	2191.1	9.5
20°-30°	3359.2	14.5
30°-40°	4119.7	17.8
40°-50°	4374.4	18.9
50°-60°	3995.5	17.3
60°-70°	2782.5	12.0
70°-80°	1297.8	5.6
80°-90°	224.5	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°	6309.7	27.3
0°-40°	10429.4	45.1
0°-60°	18799.3	81.4
0°-90°	23104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8003	8003	8003	8003	8003	
5°	7940	7995	7962	8000	8007	755
15°	7701	7754	7742	7789	7796	2175
25°	7219	7282	7271	7325	7311	3327
35°	6505	6580	6580	6624	6589	4071
45°	5584	5669	5677	5714	5684	4307
55°	4450	4539	4561	4569	4448	3974
65°	3111	3207	2980	2370	2310	3069
75°	1580	1680	1224	848	813	1689
85°	289	190	149	159	160	373
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8003.0	8003.0	8003.0	8003.0	*8003.0*
2.5°	*7960.8*	*8011.7*	*7978.1*	*8014.5*	*8045.2*
5°	7939.7	7995.3	7961.8	8000.1	*8006.9*
7.5°	7905.1	7957.9	7927.2	7969.4	*7980.0*
10°	7853.3	7905.1	7881.2	7931.1	*7940.6*
12.5°	7783.3	7836.1	7817.8	7872.5	*7879.2*
15°	7700.8	7754.5	7742.0	7789.1	*7795.8*
17.5°	7603.9	7659.5	7645.1	7695.0	*7699.8*
20°	7487.8	7548.2	7535.7	7594.3	*7588.5*
22.5°	7357.3	7421.6	7412.0	7470.5	*7453.2*
25°	7219.1	7282.4	7270.9	7324.7	*7311.2*
27.5°	7057.0	7127.0	7116.5	7168.3	*7147.2*
30°	6886.2	6957.2	6953.3	7000.4	*6979.3*
32.5°	6702.0	6777.8	6773.9	6820.0	*6787.4*
35°	6505.3	6580.1	6580.1	6624.2	*6588.7*
37.5°	6297.1	6372.9	6373.8	6416.0	*6382.5*
40°	6072.5	6148.3	6153.1	6193.4	*6162.7*
42.5°	5836.5	5919.0	5922.9	5959.3	*5930.5*
45°	5584.2	5668.6	5677.2	5713.7	*5684.0*
47.5°	5320.3	5405.7	5413.4	5452.7	*5431.6*
50°	5045.9	5128.4	5139.0	5171.6	*5138.0*
52.5°	4756.1	4840.6	4855.0	4875.1	*4859.8*
55°	4450.1	4539.3	4561.4	4569.0	*4448.1*
57.5°	4133.4	4224.6	4245.7	4069.2	*3680.6*
60°	3807.2	3897.4	3917.6	3310.2	*3033.9*
62.5°	3467.6	3555.8	3577.9	2743.2	*2654.9*
65°	3110.6	3206.6	2980.1	2369.9	*2310.4*
67.5°	2744.1	2842.9	2253.8	2031.2	*1995.7*
70°	2358.4	2458.2	1855.6	1731.9	*1723.2*
72.5°	1988.0	2061.9	1522.7	1312.6	*1105.3*
75°	1580.3	1680.0	1224.3	848.2	*812.7*
77.5°	1225.3	1059.3	738.8	621.7	*490.3*
80°	873.1	708.1	483.6	258.1	*243.7*
82.5°	553.6	462.5	190.0	194.8	*203.4*
85°	288.8	190.0	148.7	159.3	*160.2*
87.5°	93.1	81.6	89.2	88.3	*87.3*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)