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-AWG-UNV-L735-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 (P23764)
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-AWG-UNV-L735-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:	19871.0 lumens
Efficiency:	N/A
Efficacy:	129.0 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.28 / 1.32
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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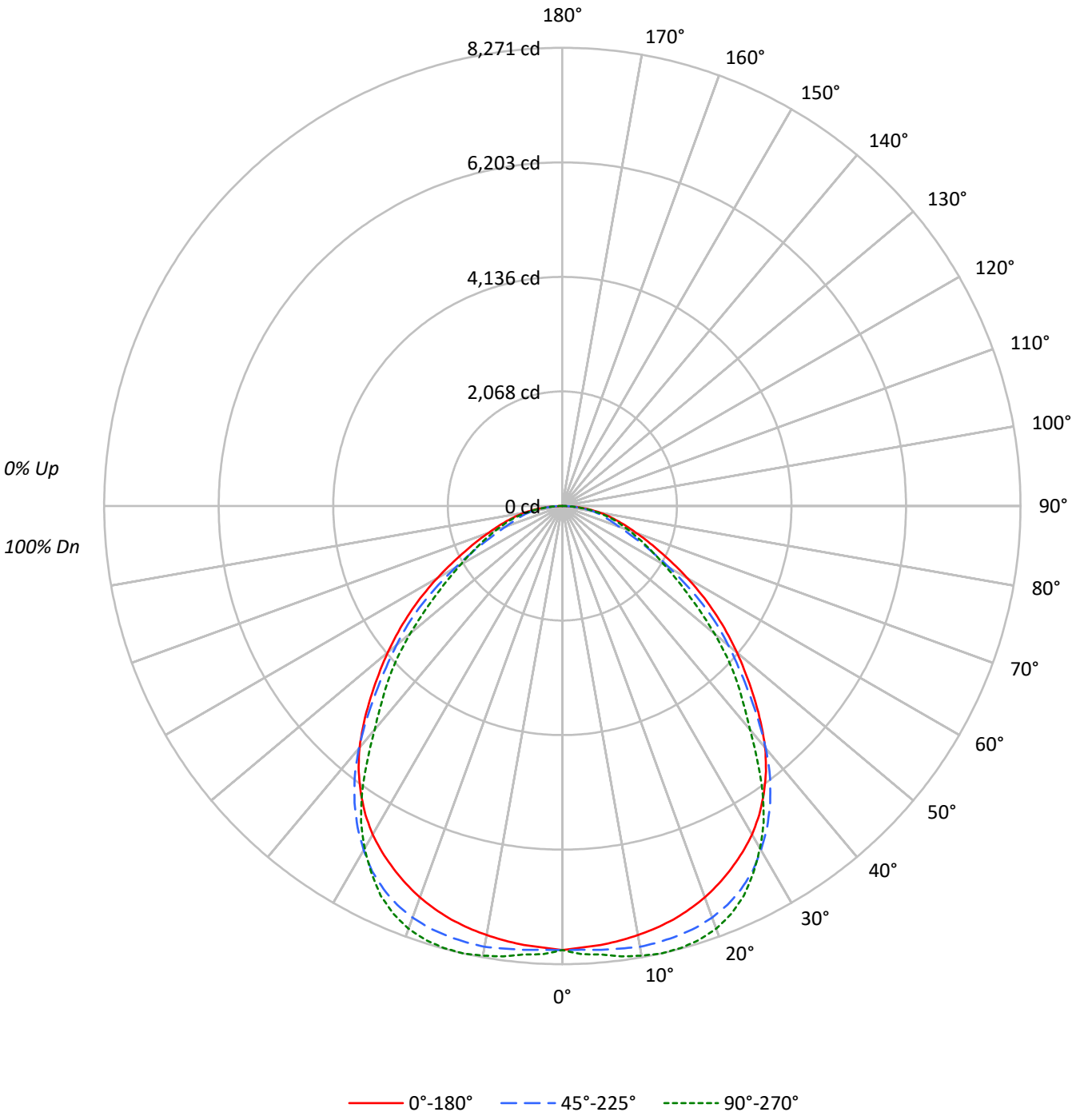
Luminous Intensity Polar Plot



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10785	10785	10785
5°	10744	10864	10974
10°	10746	11038	11260
15°	10767	11191	11506
20°	10765	11319	11624
25°	10718	11334	11518
30°	10639	11145	11086
35°	10413	10742	10351
40°	10006	10035	9254
45°	9313	9047	8460
50°	8609	8181	7496
55°	7880	7250	6468
60°	7027	6018	5712
65°	6163	4952	5248
70°	5565	4266	4998
75°	5319	4181	4984
80°	5361	4427	4862
85°	4749	4055	4244

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.0	3.9
10°-20°	2269.2	11.4
20°-30°	3480.6	17.5
30°-40°	4003.2	20.1
40°-50°	3651.2	18.4
50°-60°	2736.6	13.8
60°-70°	1683.3	8.5
70°-80°	964.7	4.9
80°-90°	312.3	1.6
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°	6519.7	32.8
0°-40°	10522.9	53.0
0°-60°	16910.7	85.1
0°-90°	19871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8016	8016	8016	8016	8016	
5°	7954	8035	8043	8110	8125	756
15°	7730	7901	8034	8206	8260	2182
25°	7220	7427	7635	7752	7758	3327
35°	6340	6463	6540	6433	6302	3954
45°	4894	5001	4754	4509	4446	3777
55°	3359	3235	3091	2818	2757	3001
65°	1936	1731	1556	1604	1648	1946
75°	1023	917	804	921	959	1094
85°	308	290	263	277	275	343
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8015.8	8015.8	8015.8	8015.8	*8015.8*
2.5°	7978.0	8035.2	8016.8	8063.8	*8098.6*
5°	7954.5	8035.2	8043.4	8109.8	*8125.2*
7.5°	7914.6	8019.9	8056.7	8174.2	*8200.8*
10°	7865.6	7992.3	8079.2	8205.9	*8241.7*
12.5°	*7806.3*	*7953.5*	*8063.8*	*8220.2*	*8271.3*
15°	7729.6	7901.3	8034.2	8205.9	*8260.1*
17.5°	7632.5	7831.8	7987.2	8155.8	*8212.0*
20°	7518.1	7728.6	7905.4	8078.1	*8118.0*
22.5°	7380.1	7591.7	7793.0	7948.3	*7969.8*
25°	7219.6	7427.1	7634.6	7752.1	*7758.2*
27.5°	7044.9	7238.0	7432.2	7495.6	*7468.0*
30°	6847.6	7020.3	7173.6	7186.9	*7135.8*
32.5°	6613.6	6768.9	6878.3	6849.7	*6763.8*
35°	6339.7	6463.3	6540.0	6432.7	*6301.9*
37.5°	6039.2	6132.2	6157.7	5924.7	*5775.5*
40°	5696.8	5776.5	5713.2	5389.2	*5268.6*
42.5°	5302.3	5394.3	5231.8	4911.9	*4838.3*
45°	4894.5	5000.8	4754.5	4509.2	*4445.8*
47.5°	4494.9	4592.0	4313.0	4115.7	*4021.7*
50°	4112.7	4154.6	3908.3	3685.4	*3581.2*
52.5°	3736.5	3694.6	3519.9	3242.9	*3150.9*
55°	3359.4	3234.7	3090.6	2817.7	*2757.4*
57.5°	2981.3	2807.5	2650.1	2440.6	*2417.1*
60°	2611.3	2397.7	2236.2	2111.5	*2122.8*
62.5°	2258.7	2041.0	1868.3	1828.4	*1871.3*
65°	1935.7	1731.3	1555.5	1603.6	*1648.5*
67.5°	1666.9	1470.7	1291.8	1414.5	*1450.3*
70°	1414.5	1256.1	1084.4	1242.8	*1270.4*
72.5°	1213.2	1078.2	929.0	1083.4	*1106.9*
75°	1023.1	916.8	804.3	920.9	*958.7*
77.5°	857.5	769.6	692.9	761.4	*802.3*
80°	691.9	617.3	571.3	602.0	*627.5*
82.5°	506.9	458.9	425.2	438.5	*442.5*
85°	307.6	290.3	262.7	277.0	*274.9*
87.5°	101.2	115.5	121.6	109.4	*103.2*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)