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-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 (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-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:	20101.0 lumens
Efficiency:	N/A
Efficacy:	130.5 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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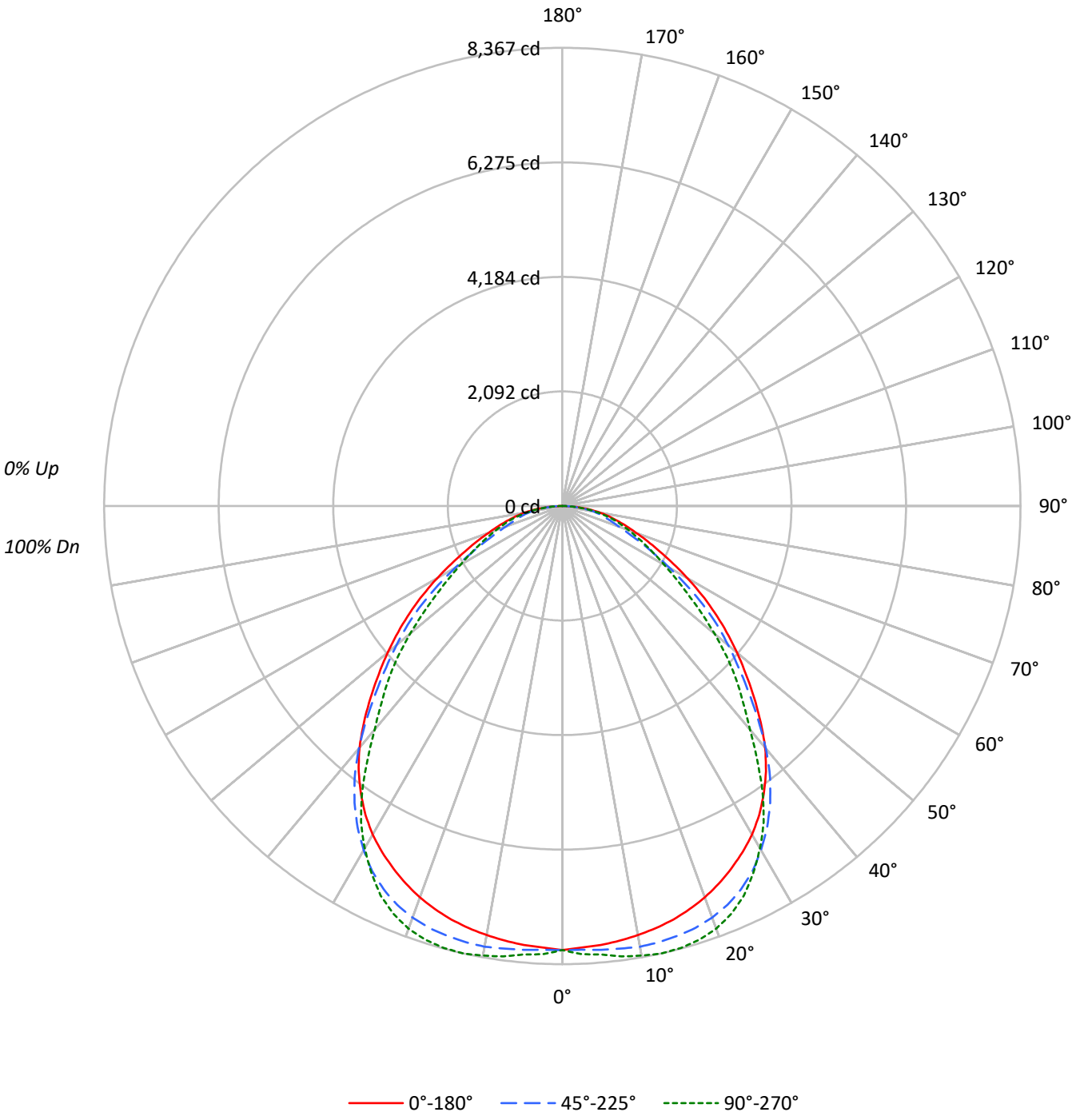
Luminous Intensity Polar Plot



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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°	10910	10910	10910
5°	10868	10989	11101
10°	10871	11166	11391
15°	10892	11321	11639
20°	10889	11450	11758
25°	10842	11465	11651
30°	10762	11274	11215
35°	10534	10867	10471
40°	10122	10151	9361
45°	9421	9152	8558
50°	8708	8276	7583
55°	7972	7334	6543
60°	7108	6087	5778
65°	6234	5010	5309
70°	5629	4315	5056
75°	5380	4230	5042
80°	5423	4478	4919
85°	4804	4102	4293

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.9	3.9
10°-20°	2295.4	11.4
20°-30°	3520.9	17.5
30°-40°	4049.5	20.1
40°-50°	3693.4	18.4
50°-60°	2768.3	13.8
60°-70°	1702.8	8.5
70°-80°	975.8	4.9
80°-90°	315.9	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°	6595.2	32.8
0°-40°	10644.7	53.0
0°-60°	17106.4	85.1
0°-90°	20101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8109	8109	8109	8109	8109	
5°	8046	8128	8136	8204	8219	765
15°	7819	7993	8127	8301	8356	2207
25°	7303	7513	7723	7842	7848	3365
35°	6413	6538	6616	6507	6375	3999
45°	4951	5059	4810	4561	4497	3821
55°	3398	3272	3126	2850	2789	3036
65°	1958	1751	1574	1622	1668	1969
75°	1035	927	814	932	970	1107
85°	311	294	266	280	278	347
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8108.6	8108.6	8108.6	8108.6	*8108.6*
2.5°	8070.3	8128.2	8109.6	8157.2	*8192.3*
5°	8046.5	8128.2	8136.5	8203.7	*8219.2*
7.5°	8006.2	8112.7	8149.9	8268.8	*8295.7*
10°	7956.6	8084.8	8172.7	8300.9	*8337.1*
12.5°	*7896.6*	*8045.5*	*8157.2*	*8315.4*	*8367.0*
15°	7819.1	7992.8	8127.2	8300.9	*8355.7*
17.5°	7720.9	7922.5	8079.6	8250.2	*8307.1*
20°	7605.1	7818.1	7996.9	8171.6	*8212.0*
22.5°	7465.5	7679.5	7883.2	8040.3	*8062.1*
25°	7303.2	7513.1	7722.9	7841.8	*7848.0*
27.5°	7126.4	7321.8	7518.2	7582.3	*7554.4*
30°	6926.9	7101.6	7256.7	7270.1	*7218.4*
32.5°	6690.1	6847.3	6957.9	6928.9	*6842.1*
35°	6413.0	6538.1	6615.7	6507.1	*6374.8*
37.5°	6109.1	6203.2	6229.0	5993.3	*5842.4*
40°	5762.7	5843.4	5779.3	5451.6	*5329.6*
42.5°	5363.7	5456.7	5292.3	4968.7	*4894.3*
45°	4951.2	5058.7	4809.5	4561.4	*4497.3*
47.5°	4546.9	4645.1	4362.9	4163.4	*4068.2*
50°	4160.3	4202.6	3953.5	3728.1	*3622.7*
52.5°	3779.8	3737.4	3560.6	3280.4	*3187.4*
55°	3398.3	3272.2	3126.4	2850.4	*2789.4*
57.5°	3015.8	2840.0	2680.8	2468.9	*2445.1*
60°	2641.5	2425.4	2262.1	2136.0	*2147.3*
62.5°	2284.8	2064.6	1889.9	1849.6	*1893.0*
65°	1958.1	1751.4	1573.5	1622.1	*1667.6*
67.5°	1686.2	1487.7	1306.8	1430.9	*1467.0*
70°	1430.9	1270.6	1096.9	1257.2	*1285.1*
72.5°	1227.2	1090.7	939.8	1095.9	*1119.7*
75°	1034.9	927.4	813.6	931.5	*969.8*
77.5°	867.4	778.5	701.0	770.2	*811.6*
80°	699.9	624.5	577.9	608.9	*634.8*
82.5°	512.8	464.2	430.1	443.5	*447.7*
85°	311.2	293.6	265.7	280.2	*278.1*
87.5°	102.4	116.8	123.0	110.6	*104.4*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)