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-LD5-15SE-W-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 (P23760)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-15SE-W-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:	15131.0 lumens
Efficiency:	N/A
Efficacy:	158.9 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):	95.2
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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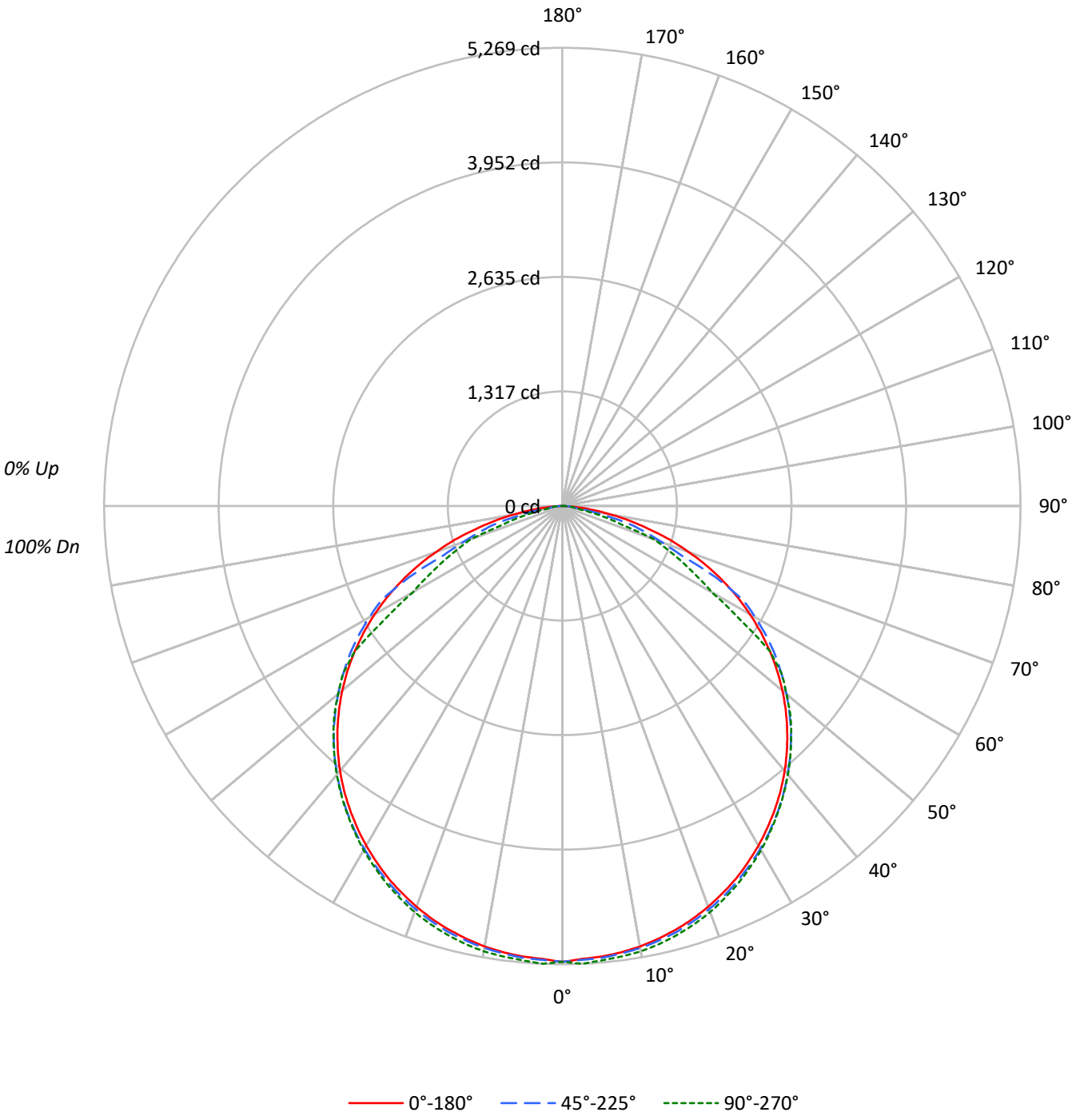
Luminous Intensity Polar Plot



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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°	7052	7052	7052
5°	7023	7042	7082
10°	7027	7052	7105
15°	7025	7063	7112
20°	7021	7066	7116
25°	7019	7069	7108
30°	7007	7075	7101
35°	6998	7078	7088
40°	6985	7078	7089
45°	6959	7075	7083
50°	6917	7045	7043
55°	6837	7008	6834
60°	6710	6904	5347
65°	6486	6214	4817
70°	6076	4781	4440
75°	5380	4168	2767
80°	4431	2454	1237
85°	2919	1504	1619

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.4	3.3
10°-20°	1434.9	9.5
20°-30°	2200.0	14.5
30°-40°	2698.0	17.8
40°-50°	2864.8	18.9
50°-60°	2616.7	17.3
60°-70°	1822.3	12.0
70°-80°	849.9	5.6
80°-90°	147.0	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°	4132.3	27.3
0°-40°	6830.3	45.1
0°-60°	12311.8	81.4
0°-90°	15131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5241	5241	5241	5241	5241	
5°	5200	5236	5214	5239	5244	495
15°	5043	5078	5070	5101	5106	1424
25°	4728	4769	4762	4797	4788	2179
35°	4260	4309	4309	4338	4315	2666
45°	3657	3712	3718	3742	3722	2820
55°	2914	2973	2987	2992	2913	2603
65°	2037	2100	1952	1552	1513	2010
75°	1035	1100	802	556	532	1106
85°	189	124	97	104	105	244
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5241.2	5241.2	5241.2	5241.2	*5241.2*
2.5°	*5213.6*	*5246.9*	*5224.9*	*5248.8*	*5268.9*
5°	5199.8	5236.2	5214.2	5239.4	*5243.8*
7.5°	5177.1	5211.7	5191.6	5219.2	*5226.2*
10°	5143.2	5177.1	5161.4	5194.1	*5200.4*
12.5°	5097.3	5131.9	5120.0	5155.8	*5160.2*
15°	5043.3	5078.5	5070.3	5101.1	*5105.5*
17.5°	4979.8	5016.3	5006.9	5039.5	*5042.7*
20°	4903.8	4943.4	4935.2	4973.6	*4969.8*
22.5°	4818.3	4860.4	4854.2	4892.5	*4881.2*
25°	4727.9	4769.3	4761.8	4797.0	*4788.2*
27.5°	4621.7	4667.5	4660.6	4694.6	*4680.7*
30°	4509.8	4556.3	4553.8	4584.6	*4570.8*
32.5°	4389.2	4438.8	4436.3	4466.5	*4445.1*
35°	4260.4	4309.4	4309.4	4338.3	*4315.0*
37.5°	4124.0	4173.6	4174.3	4201.9	*4179.9*
40°	3977.0	4026.6	4029.7	4056.1	*4036.0*
42.5°	3822.4	3876.4	3878.9	3902.8	*3884.0*
45°	3657.1	3712.4	3718.1	3741.9	*3722.5*
47.5°	3484.3	3540.2	3545.3	3571.0	*3557.2*
50°	3304.6	3358.6	3365.6	3386.9	*3364.9*
52.5°	3114.8	3170.1	3179.6	3192.8	*3182.7*
55°	2914.4	2972.8	2987.3	2992.3	*2913.1*
57.5°	2707.0	2766.7	2780.5	2664.9	*2410.4*
60°	2493.4	2552.4	2565.6	2167.9	*1986.9*
62.5°	2270.9	2328.7	2343.2	1796.5	*1738.7*
65°	2037.2	2100.0	1951.7	1552.1	*1513.1*
67.5°	1797.1	1861.9	1476.0	1330.3	*1307.0*
70°	1544.5	1609.9	1215.3	1134.2	*1128.6*
72.5°	1302.0	1350.4	997.2	859.6	*723.9*
75°	1034.9	1100.3	801.8	555.5	*532.2*
77.5°	802.4	693.7	483.8	407.2	*321.1*
80°	571.8	463.7	316.7	169.0	*159.6*
82.5°	362.6	302.9	124.4	127.6	*133.2*
85°	189.1	124.4	97.4	104.3	*104.9*
87.5°	61.0	53.4	58.4	57.8	*57.2*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)