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-W-UNV-L835-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-LD5-12SE-W-UNV-L835-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:	11173.0 lumens
Efficiency:	N/A
Efficacy:	145.9 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):	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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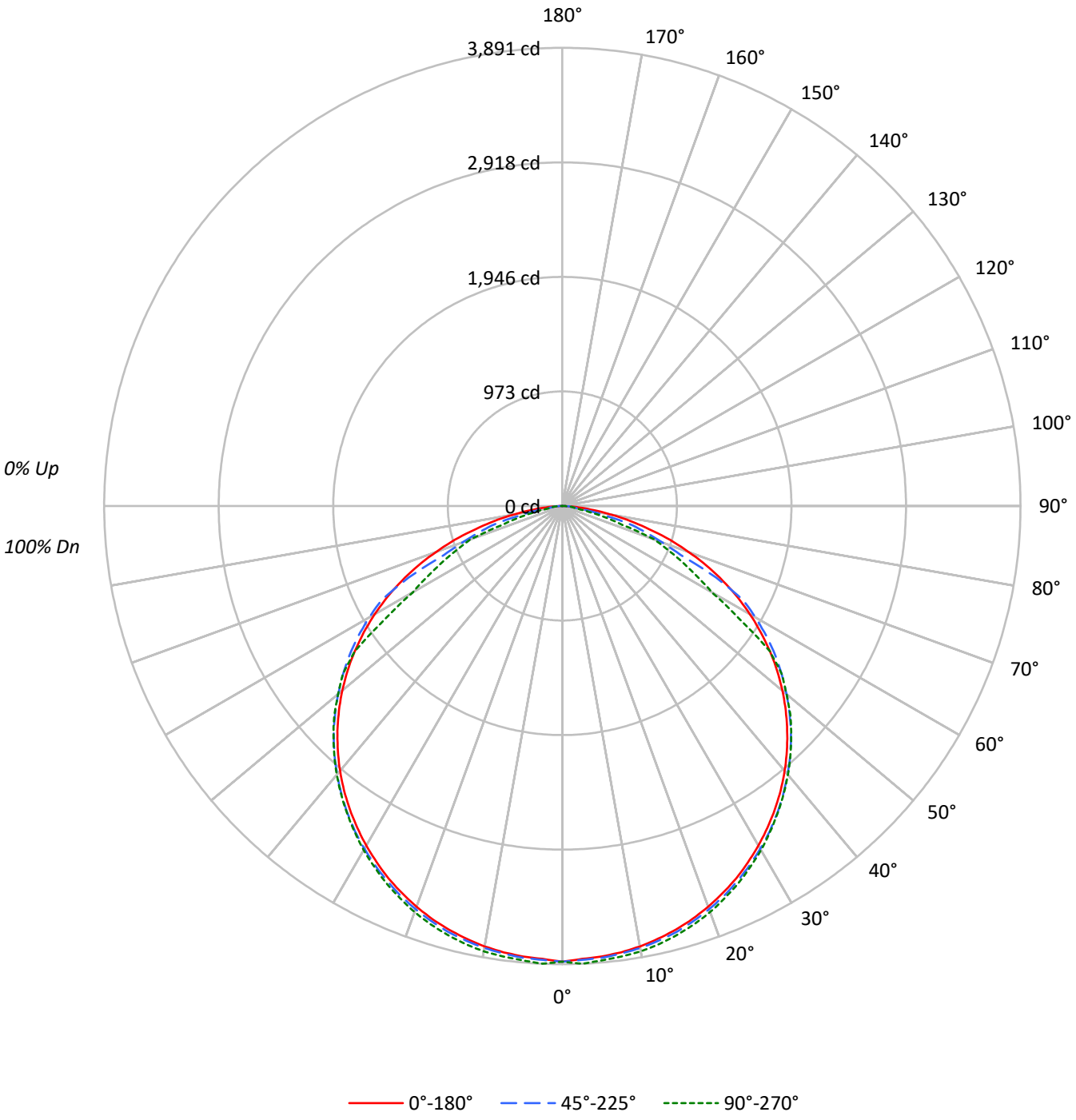
Luminous Intensity Polar Plot



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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	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°	5207	5207	5207
5°	5186	5200	5230
10°	5189	5207	5247
15°	5187	5215	5251
20°	5185	5218	5255
25°	5183	5220	5249
30°	5174	5224	5244
35°	5167	5227	5234
40°	5158	5226	5235
45°	5139	5224	5230
50°	5108	5202	5201
55°	5048	5175	5046
60°	4955	5098	3948
65°	4789	4588	3557
70°	4487	3530	3278
75°	3973	3078	2043
80°	3271	1812	914
85°	2157	1110	1196

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	3.3
10°-20°	1059.6	9.5
20°-30°	1624.5	14.5
30°-40°	1992.3	17.8
40°-50°	2115.5	18.9
50°-60°	1932.2	17.3
60°-70°	1345.6	12.0
70°-80°	627.6	5.6
80°-90°	108.6	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°	3051.3	27.3
0°-40°	5043.6	45.1
0°-60°	9091.3	81.4
0°-90°	11173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3870	3870	3870	3870	3870	
5°	3840	3866	3850	3869	3872	365
15°	3724	3750	3744	3767	3770	1052
25°	3491	3522	3516	3542	3536	1609
35°	3146	3182	3182	3204	3186	1969
45°	2700	2741	2746	2763	2749	2083
55°	2152	2195	2206	2210	2151	1922
65°	1504	1551	1441	1146	1117	1484
75°	764	812	592	410	393	817
85°	140	92	72	77	78	180
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3870.2	3870.2	3870.2	3870.2	*3870.2*
2.5°	*3849.8*	*3874.4*	*3858.2*	*3875.8*	*3890.6*
5°	3839.6	3866.5	3850.3	3868.8	*3872.1*
7.5°	3822.9	3848.4	3833.6	3854.0	*3859.1*
10°	3797.8	3822.9	3811.3	3835.4	*3840.1*
12.5°	3764.0	3789.5	3780.7	3807.1	*3810.4*
15°	3724.1	3750.0	3744.0	3766.8	*3770.0*
17.5°	3677.2	3704.1	3697.2	3721.3	*3723.6*
20°	3621.1	3650.3	3644.3	3672.6	*3669.8*
22.5°	3558.0	3589.0	3584.4	3612.7	*3604.4*
25°	3491.1	3521.8	3516.2	3542.2	*3535.7*
27.5°	3412.7	3446.6	3441.5	3466.5	*3456.3*
30°	3330.1	3364.5	3362.6	3385.3	*3375.1*
32.5°	3241.0	3277.7	3275.8	3298.1	*3282.3*
35°	3145.9	3182.1	3182.1	3203.5	*3186.3*
37.5°	3045.2	3081.9	3082.4	3102.8	*3086.5*
40°	2936.7	2973.3	2975.6	2995.1	*2980.3*
42.5°	2822.5	2862.4	2864.3	2881.9	*2868.0*
45°	2700.5	2741.3	2745.5	2763.1	*2748.7*
47.5°	2572.9	2614.2	2617.9	2636.9	*2626.7*
50°	2440.2	2480.1	2485.2	2501.0	*2484.7*
52.5°	2300.0	2340.9	2347.8	2357.6	*2350.2*
55°	2152.0	2195.2	2205.9	2209.6	*2151.1*
57.5°	1998.9	2043.0	2053.2	1967.8	*1779.9*
60°	1841.2	1884.8	1894.5	1600.8	*1467.2*
62.5°	1676.9	1719.6	1730.3	1326.6	*1283.9*
65°	1504.3	1550.7	1441.2	1146.1	*1117.3*
67.5°	1327.0	1374.8	1089.9	982.3	*965.1*
70°	1140.5	1188.8	897.4	837.5	*833.3*
72.5°	961.4	997.1	736.4	634.8	*534.5*
75°	764.2	812.5	592.1	410.2	*393.0*
77.5°	592.5	512.3	357.3	300.7	*237.1*
80°	422.2	342.4	233.9	124.8	*117.9*
82.5°	267.7	223.6	91.9	94.2	*98.4*
85°	139.7	91.9	71.9	77.0	*77.5*
87.5°	45.0	39.4	43.2	42.7	*42.2*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)