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-CLI-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 (P23766)
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-CLI-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:	10379.0 lumens
Efficiency:	N/A
Efficacy:	135.5 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.37
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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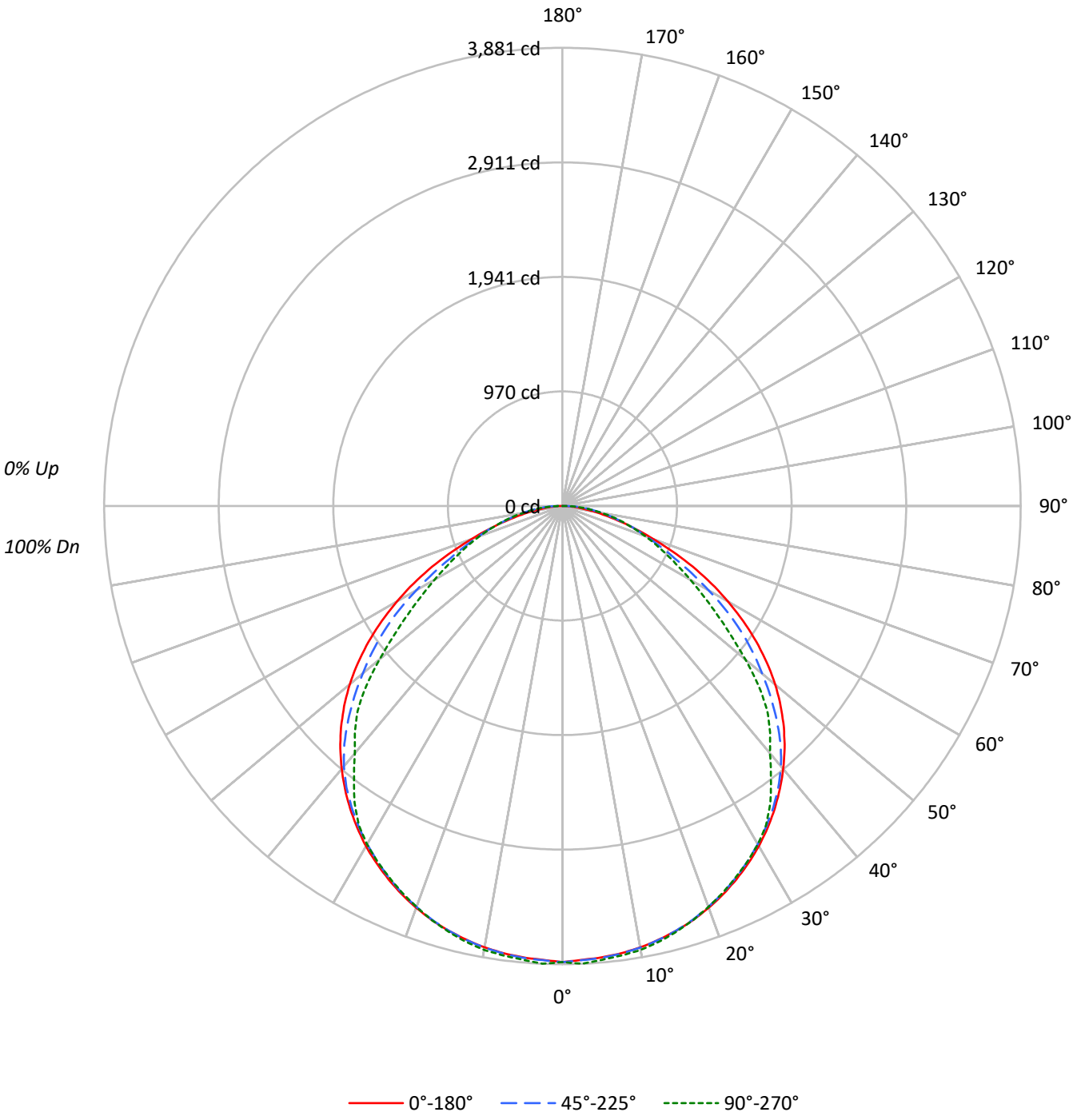
Luminous Intensity Polar Plot



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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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5198	5198	5198
5°	5184	5188	5211
10°	5187	5189	5216
15°	5187	5187	5199
20°	5186	5174	5175
25°	5178	5159	5153
30°	5170	5139	5142
35°	5146	5114	5041
40°	5109	5057	4802
45°	5044	4883	4669
50°	4923	4623	4228
55°	4699	4323	3739
60°	4360	3858	3372
65°	3876	3340	3101
70°	3216	2985	2923
75°	2601	2731	2765
80°	2066	2613	2602
85°	1618	2807	2677

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	3.5
10°-20°	1053.8	10.2
20°-30°	1606.9	15.5
30°-40°	1944.1	18.7
40°-50°	1969.2	19.0
50°-60°	1627.6	15.7
60°-70°	1075.0	10.4
70°-80°	560.5	5.4
80°-90°	175.7	1.7
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°	3027.0	29.2
0°-40°	4971.1	47.9
0°-60°	8567.8	82.5
0°-90°	10379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3863	3863	3863	3863	3863	
5°	3838	3861	3841	3858	3858	365
15°	3724	3743	3724	3735	3732	1052
25°	3488	3502	3475	3484	3471	1608
35°	3133	3137	3113	3109	3069	1959
45°	2651	2644	2566	2486	2454	2041
55°	2003	1973	1843	1664	1594	1785
65°	1217	1182	1049	981	974	1202
75°	500	509	525	532	532	545
85°	105	135	182	180	173	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3863.1	3863.1	3863.1	3863.1	*3863.1*
2.5°	*3846.9*	*3869.6*	*3850.6*	*3867.3*	*3880.7*
5°	3838.1	3861.3	3840.9	3857.6	*3858.0*
7.5°	3820.9	3844.1	3823.2	3839.9	*3839.5*
10°	3796.3	3818.1	3798.2	3818.1	*3818.1*
12.5°	3763.0	3784.3	3764.8	3783.4	*3780.6*
15°	3724.0	3743.0	3723.5	3735.1	*3732.3*
17.5°	3678.1	3695.2	3673.4	3683.2	*3677.6*
20°	3622.0	3637.7	3613.6	3626.1	*3614.5*
22.5°	3558.9	3573.7	3549.2	3558.4	*3545.4*
25°	3487.9	3501.9	3475.0	3483.8	*3470.8*
27.5°	3411.4	3423.9	3393.8	3404.5	*3394.3*
30°	3327.5	3333.5	3307.5	3321.5	*3309.4*
32.5°	3233.8	3237.5	3214.8	3227.3	*3206.9*
35°	3132.7	3136.9	3113.2	3109.0	*3069.2*
37.5°	3024.6	3026.5	3004.2	2966.7	*2900.8*
40°	2908.7	2907.8	2879.0	2792.3	*2733.9*
42.5°	2784.9	2784.4	2733.9	2635.1	*2601.7*
45°	2650.9	2643.9	2566.0	2486.2	*2453.8*
47.5°	2507.1	2499.7	2390.7	2327.1	*2253.4*
50°	2351.7	2338.7	2208.4	2121.7	*2020.1*
52.5°	2184.3	2164.4	2031.7	1891.7	*1795.7*
55°	2003.0	1973.3	1843.0	1664.0	*1593.9*
57.5°	1814.2	1770.2	1643.6	1469.2	*1412.1*
60°	1620.4	1571.2	1433.5	1290.2	*1253.1*
62.5°	1421.0	1372.3	1231.7	1123.7	*1103.3*
65°	1217.4	1182.1	1049.0	980.9	*973.9*
67.5°	1008.7	996.2	894.6	859.8	*857.0*
70°	817.6	815.3	758.7	741.1	*742.9*
72.5°	653.4	650.7	642.3	633.5	*634.0*
75°	500.4	509.2	525.4	532.4	*531.9*
77.5°	373.3	391.4	425.7	439.6	*437.3*
80°	266.7	293.6	337.2	350.1	*335.8*
82.5°	177.6	205.9	257.4	259.2	*247.6*
85°	104.8	135.0	181.8	180.4	*173.4*
87.5°	51.9	81.2	109.0	104.3	*99.7*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)