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-CL-UNV-L735-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 (P23762)
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-CL-UNV-L735-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:	10658.0 lumens
Efficiency:	N/A
Efficacy:	139.1 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.41
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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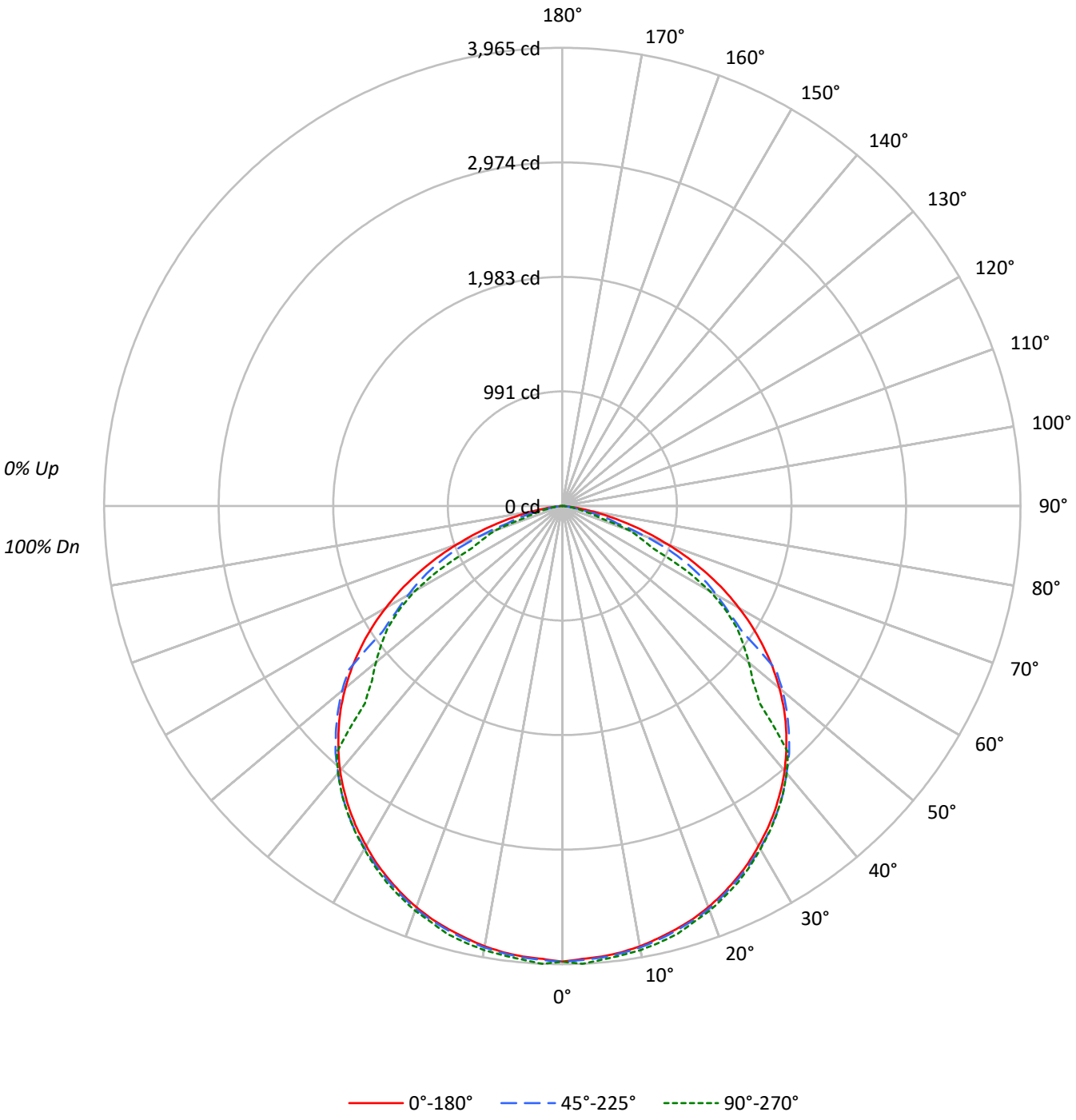
Luminous Intensity Polar Plot



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5304	5304	5304
5°	5285	5297	5323
10°	5285	5300	5331
15°	5284	5300	5343
20°	5291	5311	5335
25°	5285	5305	5337
30°	5275	5314	5326
35°	5272	5320	5324
40°	5256	5302	5302
45°	5211	5274	4595
50°	5130	5208	4409
55°	4985	4458	4331
60°	4751	4144	3957
65°	4394	3847	2740
70°	3826	2993	2442
75°	3022	2009	1313
80°	1945	959	818
85°	800	585	645

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.0	3.5
10°-20°	1077.9	10.1
20°-30°	1652.6	15.5
30°-40°	2025.5	19.0
40°-50°	2082.4	19.5
50°-60°	1777.2	16.7
60°-70°	1174.9	11.0
70°-80°	435.3	4.1
80°-90°	58.2	0.5
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°	3104.5	29.1
0°-40°	5130.0	48.1
0°-60°	8989.5	84.3
0°-90°	10658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3942	3942	3942	3942	3942	
5°	3913	3940	3922	3937	3941	372
15°	3794	3817	3805	3834	3836	1072
25°	3560	3578	3573	3605	3595	1641
35°	3210	3232	3239	3259	3242	2008
45°	2738	2766	2772	2767	2415	2110
55°	2125	2164	1900	1845	1846	1896
65°	1380	1392	1208	994	861	1361
75°	581	509	386	260	252	624
85°	52	37	38	41	42	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3942.4	3942.4	3942.4	3942.4	*3942.4*
2.5°	*3923.2*	*3947.6*	*3933.2*	*3951.5*	*3965.4*
5°	3913.1	3940.4	3921.7	3937.1	*3940.9*
7.5°	3895.8	3921.2	3904.0	3924.1	*3921.2*
10°	3868.0	3891.0	3879.0	3900.1	*3901.6*
12.5°	3832.4	3855.5	3844.4	3870.4	*3869.9*
15°	3793.5	3816.6	3805.1	3833.9	*3835.8*
17.5°	3747.9	3769.1	3760.4	3786.8	*3776.3*
20°	3695.1	3713.4	3709.1	3734.0	*3726.3*
22.5°	3630.3	3649.1	3644.7	3673.5	*3662.0*
25°	3559.8	3578.5	3573.2	3605.4	*3594.8*
27.5°	3483.5	3501.2	3500.7	3531.0	*3514.7*
30°	3395.1	3418.7	3420.1	3447.0	*3427.8*
32.5°	3307.8	3329.9	3336.1	3355.8	*3339.5*
35°	3209.9	3231.9	3239.1	3259.3	*3241.5*
37.5°	3104.2	3123.0	3135.9	3150.8	*3136.9*
40°	2992.4	3009.2	3018.8	3037.0	*3018.8*
42.5°	2867.6	2891.6	2905.0	2918.0	*2888.2*
45°	2738.5	2765.8	2771.6	2767.3	*2414.9*
47.5°	2601.7	2631.4	2634.8	2297.8	*2233.0*
50°	2451.0	2488.4	2487.9	2123.6	*2106.3*
52.5°	2294.0	2330.0	2328.5	1987.3	*1975.7*
55°	2125.0	2163.9	1900.4	1845.2	*1846.1*
57.5°	1952.7	1980.5	1705.0	1707.4	*1675.7*
60°	1765.5	1791.9	1539.9	1525.0	*1470.3*
62.5°	1577.8	1588.8	1380.0	1307.6	*1203.4*
65°	1380.0	1391.6	1208.2	993.6	*860.7*
67.5°	1177.0	1188.5	1002.7	739.2	*729.1*
70°	972.5	878.4	760.8	615.9	*620.7*
72.5°	770.9	674.9	497.3	477.1	*344.6*
75°	581.3	509.3	386.4	259.7	*252.5*
77.5°	404.7	350.9	206.9	177.1	*165.6*
80°	251.0	176.2	123.8	109.9	*105.6*
82.5°	127.2	101.3	67.2	67.2	*67.2*
85°	51.8	37.0	37.9	41.3	*41.8*
87.5°	11.0	14.9	18.2	18.7	*18.2*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)