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-A-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 (P23761)
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-A-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:	10283.0 lumens
Efficiency:	N/A
Efficacy:	134.2 lumens/watt
Spacing Criteria (0/90/45):	1.23 / 1.2 / 1.27
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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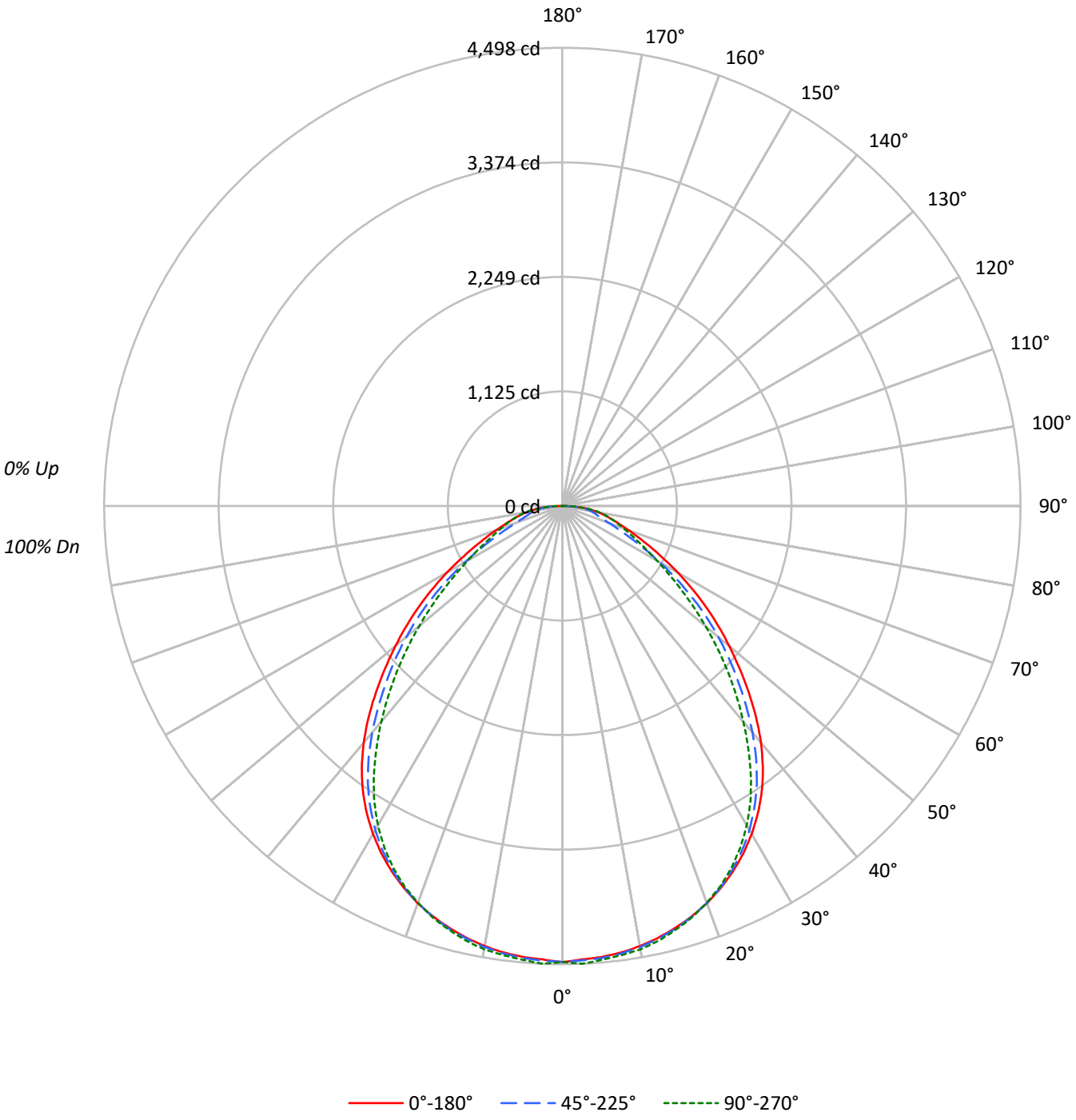
Luminous Intensity Polar Plot



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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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6023	6023	6023
5°	6002	6015	6040
10°	5993	6007	6037
15°	5973	5985	5999
20°	5942	5937	5933
25°	5877	5857	5824
30°	5776	5706	5623
35°	5608	5467	5299
40°	5329	5100	4856
45°	4923	4648	4367
50°	4475	4186	3841
55°	4024	3624	3321
60°	3521	2961	2882
65°	3036	2329	2600
70°	2707	1900	2506
75°	2593	1855	2619
80°	2805	2194	2918
85°	3149	2641	3180

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	4.1
10°-20°	1214.2	11.8
20°-30°	1816.3	17.7
30°-40°	2072.2	20.2
40°-50°	1886.3	18.3
50°-60°	1385.1	13.5
60°-70°	817.8	8.0
70°-80°	468.7	4.6
80°-90°	198.2	1.9
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°	3454.7	33.6
0°-40°	5526.9	53.7
0°-60°	8798.3	85.6
0°-90°	10283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4476	4476	4476	4476	4476	
5°	4444	4471	4454	4471	4472	422
15°	4288	4312	4297	4312	4307	1210
25°	3959	3973	3945	3944	3923	1822
35°	3414	3398	3328	3271	3226	2127
45°	2587	2572	2443	2333	2295	1994
55°	1715	1636	1545	1433	1416	1534
65°	954	832	732	782	817	960
75°	499	428	357	466	504	538
85°	204	188	171	202	206	213
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4476.4	4476.4	4476.4	4476.4	*4476.4*
2.5°	*4455.7*	*4481.4*	*4465.3*	*4482.9*	*4498.1*
5°	4443.5	4471.3	4453.6	4471.3	*4471.8*
7.5°	4421.3	4447.1	4429.9	4449.1	*4447.1*
10°	4386.5	4412.2	4396.6	4417.3	*4418.8*
12.5°	4342.1	4366.8	4350.7	4374.4	*4370.3*
15°	4288.1	4311.8	4296.6	4311.8	*4306.7*
17.5°	4224.5	4246.2	4226.5	4243.1	*4234.5*
20°	4149.7	4167.9	4146.7	4162.4	*4143.7*
22.5°	4060.4	4076.5	4054.3	4062.9	*4043.7*
25°	3958.9	3973.0	3945.3	3943.8	*3923.1*
27.5°	3845.8	3853.4	3818.1	3805.9	*3782.2*
30°	3717.6	3719.6	3672.7	3650.0	*3619.2*
32.5°	3573.7	3568.7	3508.6	3474.8	*3436.9*
35°	3414.2	3397.5	3328.4	3271.3	*3225.9*
37.5°	3234.0	3207.7	3124.9	3040.6	*2997.2*
40°	3034.1	3003.3	2903.8	2799.3	*2764.5*
42.5°	2816.5	2790.2	2673.1	2564.1	*2529.7*
45°	2587.3	2572.1	2442.9	2333.3	*2295.0*
47.5°	2358.1	2347.0	2220.8	2109.2	*2062.8*
50°	2138.0	2113.7	1999.6	1877.5	*1835.1*
52.5°	1924.4	1875.0	1774.5	1649.3	*1618.0*
55°	1715.4	1636.2	1544.8	1432.7	*1415.6*
57.5°	1508.4	1406.0	1317.1	1233.3	*1232.8*
60°	1308.5	1191.4	1100.5	1056.6	*1070.8*
62.5°	1121.2	1001.1	902.6	905.7	*931.4*
65°	953.6	832.5	731.5	782.5	*816.8*
67.5°	809.8	694.1	591.7	686.6	*719.4*
70°	688.1	583.6	483.1	601.8	*637.1*
72.5°	585.6	497.8	407.4	531.1	*566.9*
75°	498.8	427.6	356.9	465.5	*503.8*
77.5°	428.1	365.0	320.1	402.9	*442.7*
80°	362.0	306.4	283.2	342.3	*376.6*
82.5°	286.7	248.4	234.7	278.2	*295.8*
85°	204.0	188.3	171.1	201.9	*206.0*
87.5°	112.1	116.1	95.9	116.1	*116.6*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)