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-AI-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 (P23765)
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-AI-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:	10320.0 lumens
Efficiency:	N/A
Efficacy:	134.7 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.16 / 1.26
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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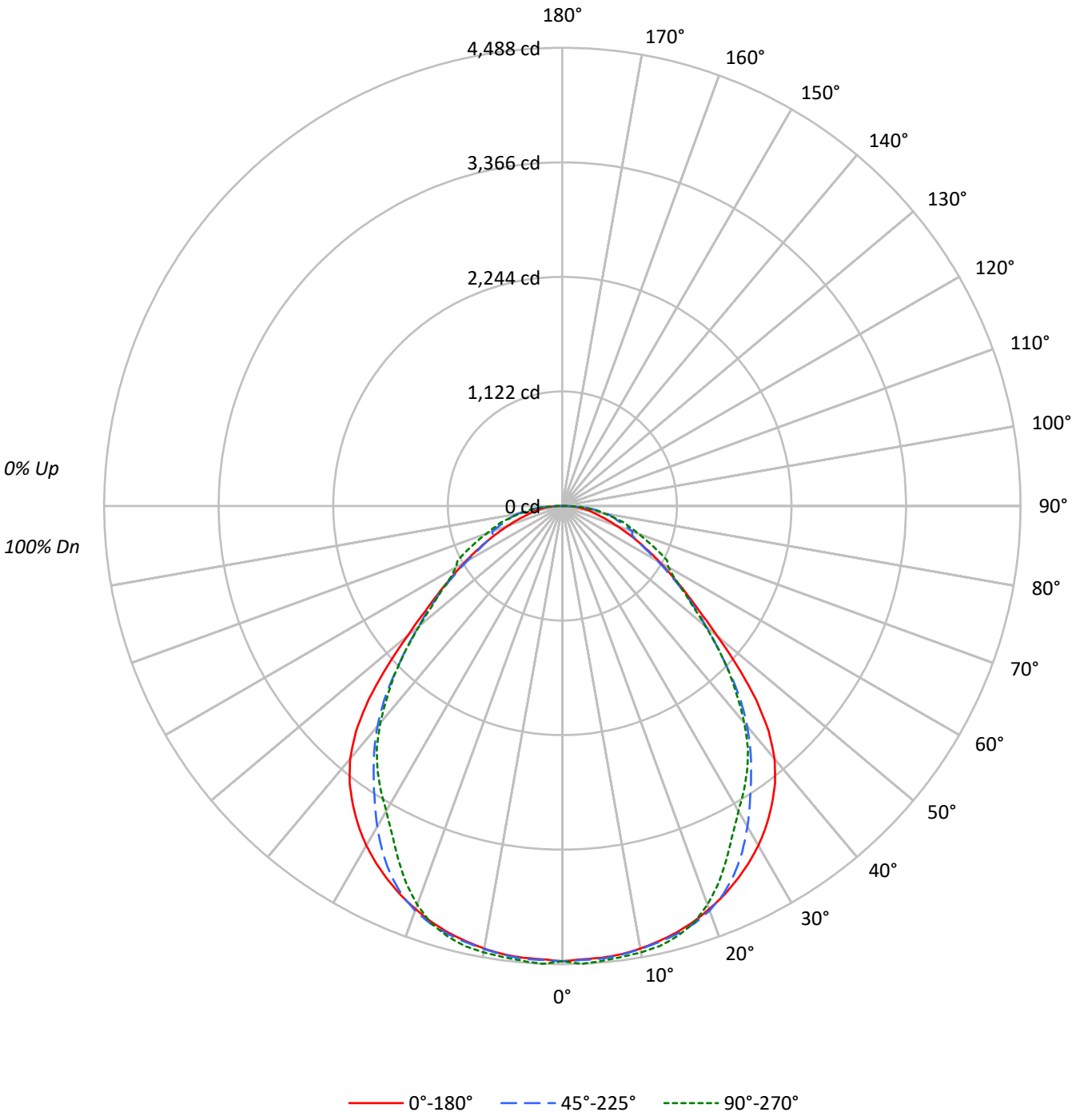
Luminous Intensity Polar Plot



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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5999	5999	5999
5°	5999	6012	6041
10°	6014	6021	6065
15°	6023	6045	6075
20°	6017	6039	5949
25°	6001	5912	5654
30°	5966	5633	5358
35°	5876	5294	5184
40°	5680	4950	4868
45°	5105	4420	4404
50°	4141	3850	3823
55°	3438	3374	3373
60°	2977	2890	3231
65°	2580	2564	3257
70°	2225	2876	3104
75°	1995	2948	3236
80°	2073	3470	3247
85°	2354	3998	3710

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	4.1
10°-20°	1226.0	11.9
20°-30°	1820.9	17.6
30°-40°	2067.2	20.0
40°-50°	1848.0	17.9
50°-60°	1277.7	12.4
60°-70°	843.1	8.2
70°-80°	568.8	5.5
80°-90°	243.6	2.4
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°	3471.5	33.6
0°-40°	5538.7	53.7
0°-60°	8664.5	84.0
0°-90°	10320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4459	4459	4459	4459	4459	
5°	4441	4469	4451	4469	4473	423
15°	4324	4344	4340	4364	4361	1220
25°	4042	4081	3982	3863	3809	1863
35°	3578	3502	3223	3176	3156	2231
45°	2683	2456	2323	2341	2314	2040
55°	1466	1338	1438	1418	1438	1331
65°	810	719	805	942	1023	809
75°	384	483	567	606	622	419
85°	152	212	259	260	240	159
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4458.6	4458.6	4458.6	4458.6	*4458.6*
2.5°	*4443.4*	*4471.2*	*4450.5*	*4469.7*	*4488.3*
5°	4441.4	4468.7	4451.0	4469.2	*4472.7*
7.5°	4428.8	4454.0	4433.3	4451.0	*4455.0*
10°	4401.5	4431.3	4407.1	4434.3	*4439.4*
12.5°	4366.2	4396.5	4375.3	4412.6	*4414.6*
15°	4323.8	4344.5	4339.9	4364.1	*4361.1*
17.5°	4270.2	4294.0	4290.4	4296.5	*4282.4*
20°	4202.1	4228.8	4217.7	4190.0	*4155.1*
22.5°	4128.9	4161.2	4117.3	4047.1	*3998.1*
25°	4042.5	4080.9	3982.0	3863.3	*3808.8*
27.5°	3947.1	3981.5	3816.9	3671.5	*3614.9*
30°	3840.1	3854.7	3625.5	3487.2	*3448.8*
32.5°	3716.4	3695.2	3421.0	3329.7	*3307.4*
35°	3577.6	3502.3	3223.1	3176.2	*3156.0*
37.5°	3421.0	3283.2	3027.7	3006.0	*2984.8*
40°	3233.7	3030.3	2818.2	2804.1	*2771.8*
42.5°	2991.9	2755.1	2585.5	2568.8	*2540.0*
45°	2682.9	2455.7	2322.9	2340.6	*2314.4*
47.5°	2327.5	2155.3	2071.0	2119.5	*2071.0*
50°	1978.1	1862.5	1839.3	1883.2	*1826.6*
52.5°	1691.8	1587.8	1635.8	1643.4	*1609.5*
55°	1465.7	1337.9	1438.4	1418.2	*1437.9*
57.5°	1268.8	1125.9	1249.6	1226.3	*1294.0*
60°	1106.2	945.6	1073.9	1068.8	*1200.6*
62.5°	946.6	818.4	921.4	995.6	*1157.7*
65°	810.3	719.4	805.3	941.6	*1022.9*
67.5°	679.6	645.2	736.6	812.3	*901.2*
70°	565.5	583.1	731.1	716.9	*789.1*
72.5°	469.5	529.6	645.2	647.8	*698.7*
75°	383.7	482.7	567.0	605.9	*622.5*
77.5°	319.1	437.7	511.9	525.6	*509.4*
80°	267.6	385.7	447.8	441.8	*419.0*
82.5°	216.1	292.3	352.9	358.5	*331.7*
85°	152.5	212.0	259.0	260.5	*240.3*
87.5°	81.8	130.8	157.0	161.6	*149.4*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)