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-LD5-30SE-W-UNV-L740-ED3-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-LD5-30SE-W-UNV-L740-ED3-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:	29899.0 lumens
Efficiency:	N/A
Efficacy:	154.9 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):	193
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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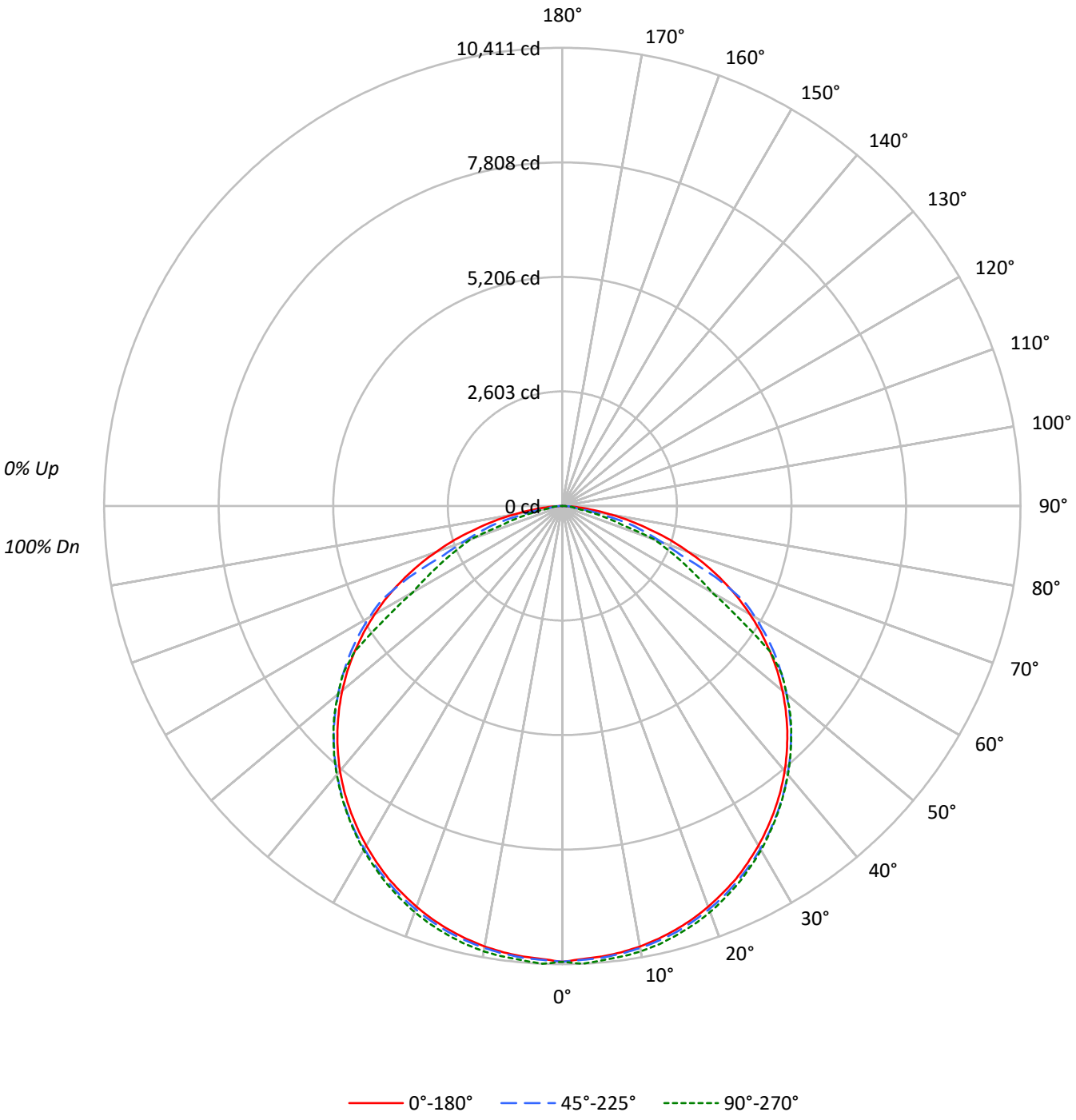
Luminous Intensity Polar Plot



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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°	13935	13935	13935
5°	13877	13916	13995
10°	13885	13934	14040
15°	13882	13956	14053
20°	13875	13963	14061
25°	13869	13969	14046
30°	13845	13980	14032
35°	13828	13987	14005
40°	13803	13986	14008
45°	13751	13980	13996
50°	13668	13921	13918
55°	13509	13847	13503
60°	13258	13642	10565
65°	12816	12278	9519
70°	12006	9447	8773
75°	10631	8237	5467
80°	8755	4849	2444
85°	5769	2972	3202

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.8	3.3
10°-20°	2835.5	9.5
20°-30°	4347.1	14.5
30°-40°	5331.3	17.8
40°-50°	5661.0	18.9
50°-60°	5170.6	17.3
60°-70°	3600.8	12.0
70°-80°	1679.4	5.6
80°-90°	290.5	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°	8165.4	27.3
0°-40°	13496.7	45.1
0°-60°	24328.2	81.4
0°-90°	29899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10357	10357	10357	10357	10357	
5°	10275	10347	10303	10353	10362	977
15°	9966	10035	10019	10080	10088	2814
25°	9342	9424	9409	9479	9462	4305
35°	8418	8515	8515	8572	8526	5268
45°	7226	7336	7347	7394	7356	5573
55°	5759	5874	5903	5913	5756	5143
65°	4026	4150	3857	3067	2990	3972
75°	2045	2174	1584	1098	1052	2186
85°	374	246	192	206	207	483
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10356.7	10356.7	10356.7	10356.7	*10356.7*
2.5°	*10302.1*	*10367.9*	*10324.5*	*10371.6*	*10411.4*
5°	10274.8	10346.8	10303.3	10353.0	*10361.7*
7.5°	10230.1	10298.4	10258.6	10313.3	*10326.9*
10°	10163.0	10230.1	10199.0	10263.6	*10276.0*
12.5°	10072.4	10140.7	10117.1	10187.9	*10196.6*
15°	9965.6	10035.1	10019.0	10079.8	*10088.5*
17.5°	9840.2	9912.2	9893.6	9958.2	*9964.4*
20°	9690.0	9768.2	9752.0	9827.8	*9820.3*
22.5°	9521.1	9604.3	9591.9	9667.6	*9645.3*
25°	9342.3	9424.2	9409.3	9478.9	*9461.5*
27.5°	9132.5	9223.1	9209.4	9276.5	*9249.2*
30°	8911.4	9003.3	8998.4	9059.2	*9031.9*
32.5°	8673.0	8771.1	8766.2	8825.8	*8783.5*
35°	8418.5	8515.3	8515.3	8572.5	*8526.5*
37.5°	8149.1	8247.1	8248.4	8303.0	*8259.6*
40°	7858.5	7956.6	7962.8	8015.0	*7975.2*
42.5°	7553.1	7659.8	7664.8	7712.0	*7674.7*
45°	7226.5	7335.8	7346.9	7394.1	*7355.6*
47.5°	6885.0	6995.5	7005.5	7056.4	*7029.1*
50°	6529.9	6636.7	6650.4	6692.6	*6649.1*
52.5°	6154.9	6264.2	6282.8	6308.9	*6289.0*
55°	5758.8	5874.3	5902.9	5912.8	*5756.4*
57.5°	5349.1	5467.1	5494.4	5265.9	*4763.0*
60°	4926.9	5043.6	5069.7	4283.7	*3926.1*
62.5°	4487.4	4601.6	4630.2	3549.9	*3435.7*
65°	4025.5	4149.6	3856.6	3066.9	*2989.9*
67.5°	3551.2	3679.1	2916.7	2628.6	*2582.7*
70°	3052.0	3181.1	2401.4	2241.2	*2230.0*
72.5°	2572.7	2668.3	1970.5	1698.6	*1430.4*
75°	2045.0	2174.2	1584.4	1097.6	*1051.7*
77.5°	1585.6	1370.8	956.1	804.6	*634.5*
80°	1129.9	916.3	625.8	334.0	*315.4*
82.5°	716.4	598.5	245.8	252.1	*263.2*
85°	373.7	245.8	192.5	206.1	*207.4*
87.5°	120.4	105.5	115.5	114.2	*113.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)