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-L735-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-L735-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:	29557.0 lumens
Efficiency:	N/A
Efficacy:	153.1 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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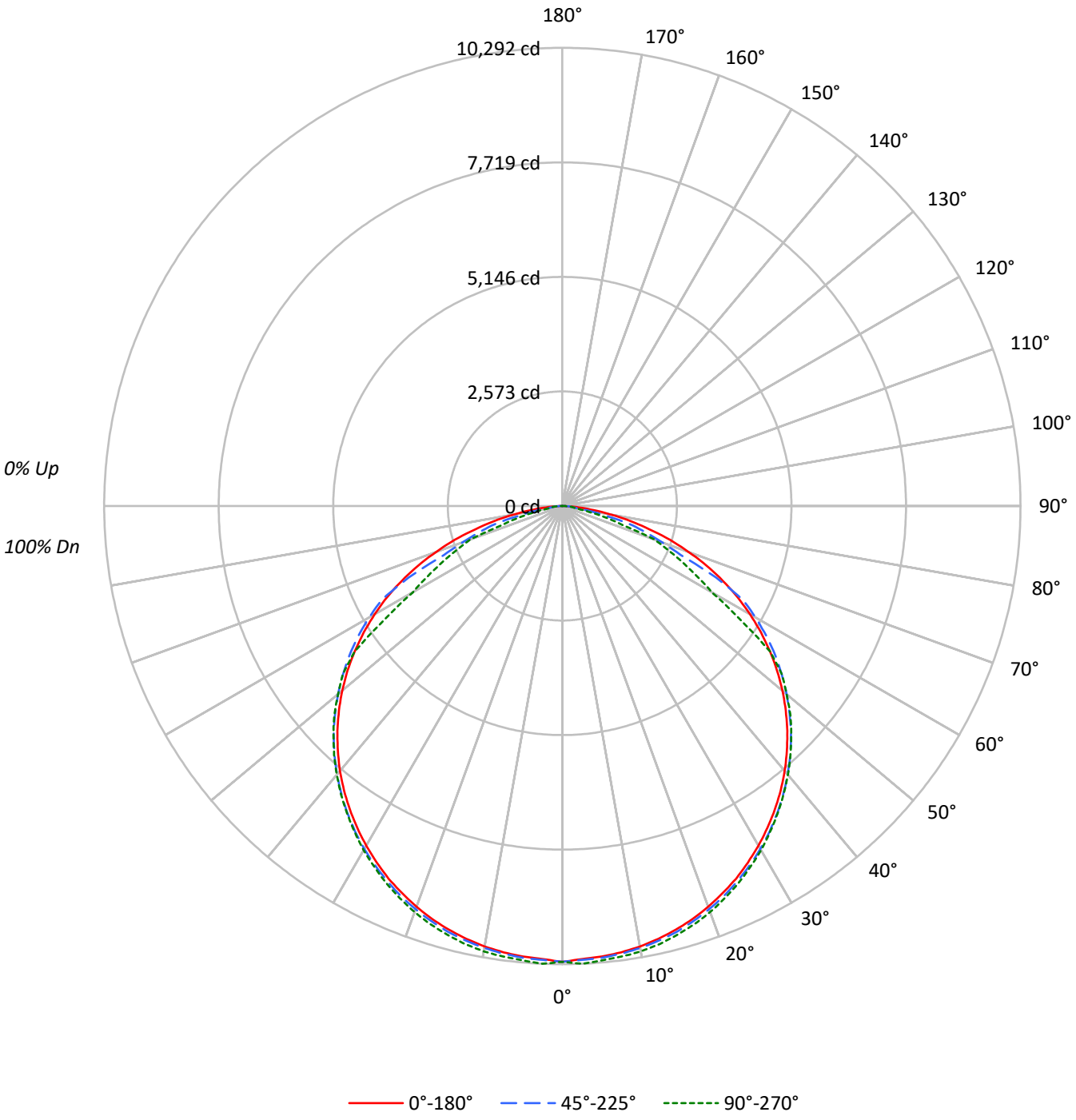
Luminous Intensity Polar Plot



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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°	13776	13776	13776
5°	13719	13757	13835
10°	13726	13775	13879
15°	13723	13796	13892
20°	13716	13804	13900
25°	13711	13809	13886
30°	13687	13820	13872
35°	13670	13827	13845
40°	13645	13826	13848
45°	13593	13820	13836
50°	13512	13761	13759
55°	13355	13689	13349
60°	13107	13486	10444
65°	12669	12138	9410
70°	11869	9339	8672
75°	10509	8142	5405
80°	8655	4793	2416
85°	5704	2938	3165

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.6	3.3
10°-20°	2803.0	9.5
20°-30°	4297.4	14.5
30°-40°	5270.3	17.8
40°-50°	5596.2	18.9
50°-60°	5111.5	17.3
60°-70°	3559.6	12.0
70°-80°	1660.2	5.6
80°-90°	287.2	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°	8072.0	27.3
0°-40°	13342.3	45.1
0°-60°	24050.0	81.4
0°-90°	29557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10238	10238	10238	10238	10238	
5°	10157	10228	10186	10235	10243	966
15°	9852	9920	9904	9965	9973	2782
25°	9235	9316	9302	9370	9353	4256
35°	8322	8418	8418	8474	8429	5208
45°	7144	7252	7263	7310	7272	5510
55°	5693	5807	5835	5845	5690	5084
65°	3979	4102	3812	3032	2956	3926
75°	2022	2149	1566	1085	1040	2161
85°	370	243	190	204	205	477
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10238.3	10238.3	10238.3	10238.3	*10238.3*
2.5°	*10184.3*	*10249.3*	*10206.4*	*10253.0*	*10292.3*
5°	10157.3	10228.5	10185.5	10234.6	*10243.2*
7.5°	10113.1	10180.6	10141.3	10195.3	*10208.8*
10°	10046.8	10113.1	10082.4	10146.2	*10158.5*
12.5°	9957.2	10024.7	10001.4	10071.3	*10079.9*
15°	9851.6	9920.4	9904.4	9964.6	*9973.1*
17.5°	9727.7	9798.8	9780.4	9844.3	*9850.4*
20°	9579.1	9656.5	9640.5	9715.4	*9708.0*
22.5°	9412.2	9494.4	9482.2	9557.0	*9534.9*
25°	9235.4	9316.5	9301.7	9370.5	*9353.3*
27.5°	9028.0	9117.6	9104.1	9170.4	*9143.4*
30°	8809.5	8900.3	8895.4	8955.6	*8928.6*
32.5°	8573.8	8670.8	8665.9	8724.8	*8683.1*
35°	8322.2	8417.9	8417.9	8474.4	*8429.0*
37.5°	8055.8	8152.8	8154.0	8208.1	*8165.1*
40°	7768.6	7865.6	7871.7	7923.3	*7884.0*
42.5°	7466.7	7572.2	7577.1	7623.8	*7587.0*
45°	7143.8	7251.9	7262.9	7309.5	*7271.5*
47.5°	6806.3	6915.5	6925.4	6975.7	*6948.7*
50°	6455.2	6560.8	6574.3	6616.0	*6573.1*
52.5°	6084.5	6192.6	6211.0	6236.7	*6217.1*
55°	5693.0	5807.1	5835.4	5845.2	*5690.5*
57.5°	5287.9	5404.5	5431.5	5205.7	*4708.6*
60°	4870.6	4986.0	5011.7	4234.8	*3881.2*
62.5°	4436.1	4549.0	4577.2	3509.3	*3396.4*
65°	3979.4	4102.2	3812.5	3031.8	*2955.7*
67.5°	3510.5	3637.0	2883.3	2598.5	*2553.1*
70°	3017.1	3144.8	2373.9	2215.6	*2204.5*
72.5°	2543.3	2637.8	1948.0	1679.2	*1414.0*
75°	2021.6	2149.3	1566.2	1085.1	*1039.7*
77.5°	1567.5	1355.1	945.1	795.4	*627.2*
80°	1117.0	905.9	618.6	330.2	*311.8*
82.5°	708.2	591.6	243.0	249.2	*260.2*
85°	369.5	243.0	190.3	203.8	*205.0*
87.5°	119.1	104.3	114.2	112.9	*111.7*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)