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-L835-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-L835-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:	28566.0 lumens
Efficiency:	N/A
Efficacy:	148.0 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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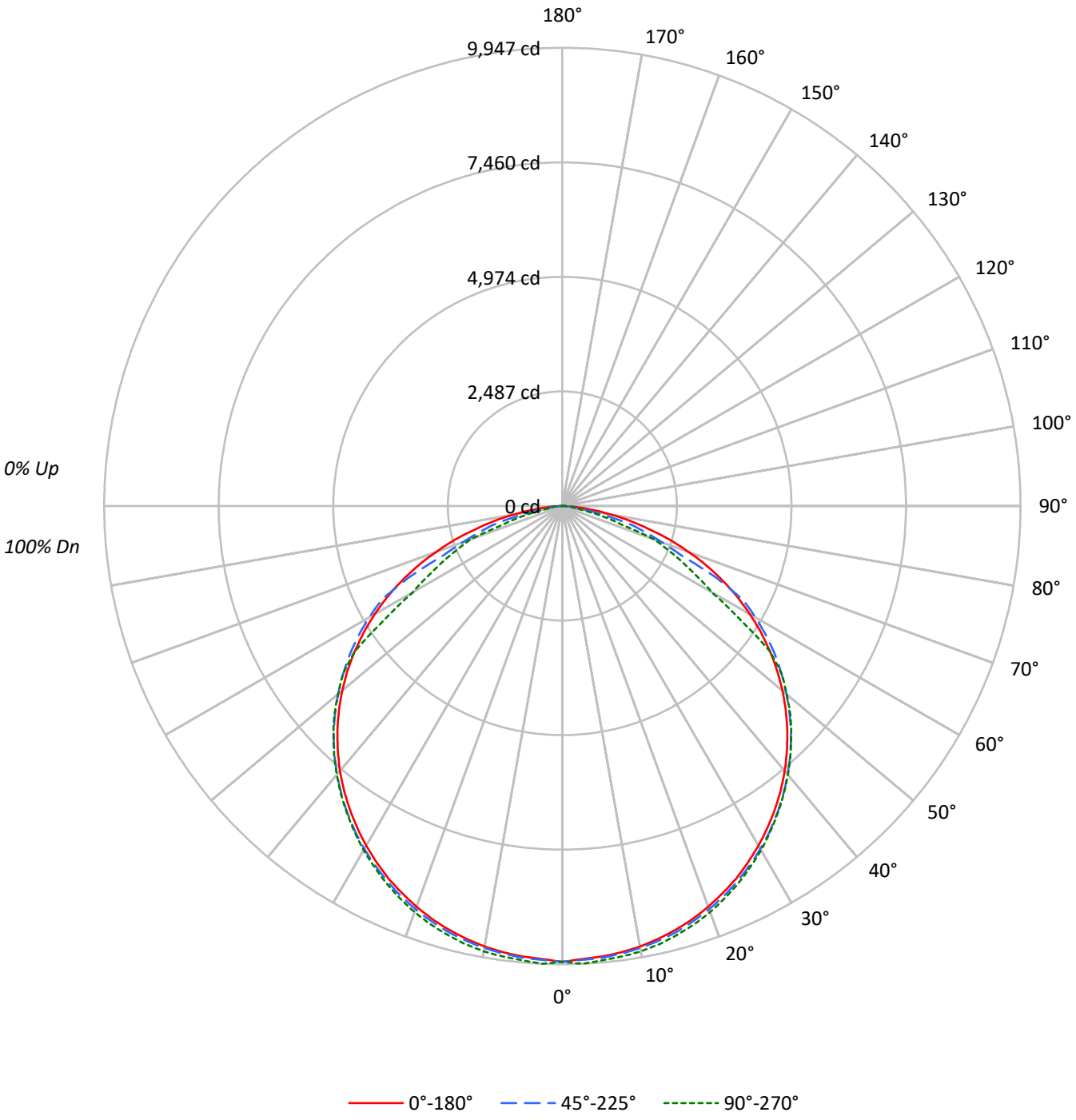
Luminous Intensity Polar Plot



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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°	13314	13314	13314
5°	13259	13296	13371
10°	13266	13313	13414
15°	13263	13334	13426
20°	13256	13341	13434
25°	13251	13346	13420
30°	13228	13357	13407
35°	13211	13363	13381
40°	13187	13362	13383
45°	13138	13357	13372
50°	13059	13300	13298
55°	12907	13230	12901
60°	12667	13034	10094
65°	12245	11731	9095
70°	11471	9026	8382
75°	10157	7869	5224
80°	8364	4633	2335
85°	5513	2839	3058

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.0	3.3
10°-20°	2709.1	9.5
20°-30°	4153.3	14.5
30°-40°	5093.6	17.8
40°-50°	5408.6	18.9
50°-60°	4940.1	17.3
60°-70°	3440.3	12.0
70°-80°	1604.5	5.6
80°-90°	277.6	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°	7801.4	27.3
0°-40°	12895.0	45.1
0°-60°	23243.6	81.4
0°-90°	28566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9895	9895	9895	9895	9895	
5°	9817	9886	9844	9891	9900	934
15°	9521	9588	9572	9630	9639	2689
25°	8926	9004	8990	9056	9040	4113
35°	8043	8136	8136	8190	8146	5033
45°	6904	7009	7019	7064	7028	5325
55°	5502	5612	5640	5649	5500	4914
65°	3846	3965	3685	2930	2857	3795
75°	1954	2077	1514	1049	1005	2089
85°	357	235	184	197	198	461
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9895.0	9895.0	9895.0	9895.0	*9895.0*
2.5°	*9842.8*	*9905.7*	*9864.2*	*9909.2*	*9947.2*
5°	9816.7	9885.5	9844.0	9891.4	*9899.7*
7.5°	9774.0	9839.2	9801.3	9853.5	*9866.5*
10°	9709.9	9774.0	9744.3	9806.0	*9817.9*
12.5°	9623.3	9688.6	9666.0	9733.7	*9742.0*
15°	9521.3	9587.7	9572.3	9630.5	*9638.8*
17.5°	9401.5	9470.3	9452.5	9514.2	*9520.1*
20°	9258.0	9332.7	9317.3	9389.6	*9382.5*
22.5°	9096.6	9176.1	9164.2	9236.6	*9215.2*
25°	8925.8	9004.1	8989.8	9056.3	*9039.7*
27.5°	8725.3	8811.9	8798.9	8862.9	*8836.8*
30°	8514.1	8601.9	8597.2	8655.3	*8629.2*
32.5°	8286.4	8380.1	8375.3	8432.3	*8391.9*
35°	8043.2	8135.7	8135.7	8190.3	*8146.4*
37.5°	7785.7	7879.5	7880.6	7932.8	*7891.3*
40°	7508.1	7601.9	7607.8	7657.6	*7619.7*
42.5°	7216.3	7318.3	7323.1	7368.2	*7332.6*
45°	6904.3	7008.7	7019.4	7064.5	*7027.7*
47.5°	6578.1	6683.7	6693.2	6741.8	*6715.7*
50°	6238.8	6340.8	6353.9	6394.2	*6352.7*
52.5°	5880.5	5984.9	6002.7	6027.6	*6008.7*
55°	5502.1	5612.4	5639.7	5649.2	*5499.7*
57.5°	5110.6	5223.3	5249.4	5031.1	*4550.7*
60°	4707.3	4818.8	4843.7	4092.8	*3751.1*
62.5°	4287.3	4396.5	4423.7	3391.7	*3282.5*
65°	3846.0	3964.6	3684.7	2930.2	*2856.6*
67.5°	3392.8	3515.0	2786.6	2511.4	*2467.5*
70°	2915.9	3039.3	2294.3	2141.3	*2130.6*
72.5°	2458.0	2549.4	1882.7	1622.9	*1366.6*
75°	1953.9	2077.2	1513.7	1048.7	*1004.8*
77.5°	1514.9	1309.7	913.5	768.7	*606.2*
80°	1079.5	875.5	597.9	319.1	*301.3*
82.5°	684.5	571.8	234.9	240.8	*251.5*
85°	357.1	234.9	183.9	196.9	*198.1*
87.5°	115.1	100.8	110.3	109.1	*108.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)