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-AWG-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 (P23764)
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-AWG-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:	24853.0 lumens
Efficiency:	N/A
Efficacy:	128.8 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.28 / 1.32
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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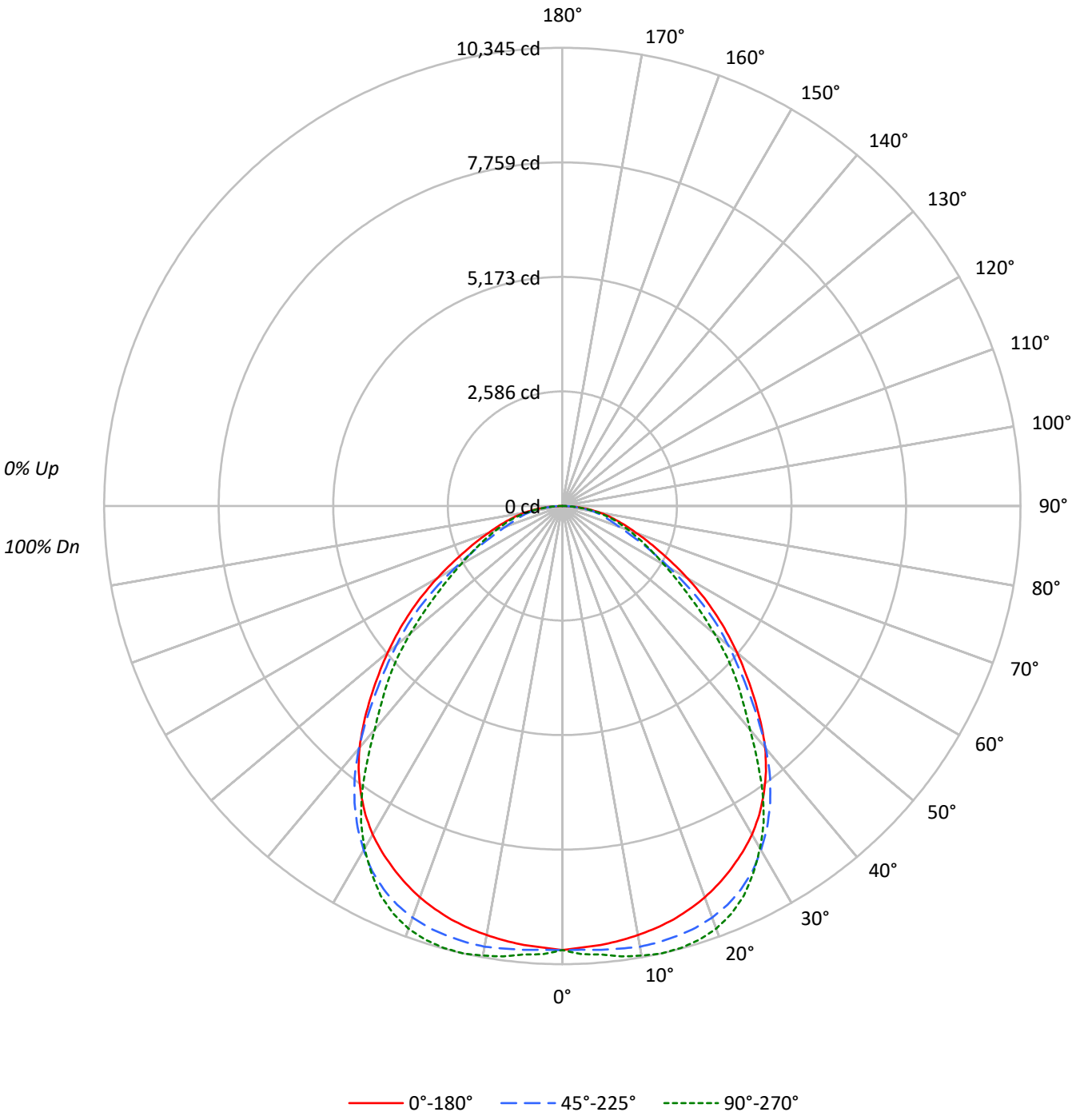
Luminous Intensity Polar Plot



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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	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	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13489	13489	13489
5°	13437	13587	13725
10°	13441	13806	14083
15°	13467	13997	14391
20°	13464	14157	14538
25°	13405	14176	14406
30°	13306	13940	13866
35°	13024	13435	12946
40°	12515	12550	11574
45°	11648	11315	10581
50°	10767	10232	9376
55°	9856	9068	8090
60°	8789	7526	7145
65°	7708	6194	6564
70°	6960	5335	6251
75°	6652	5230	6233
80°	6705	5537	6082
85°	5940	5071	5309

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	963.1	3.9
10°-20°	2838.1	11.4
20°-30°	4353.2	17.5
30°-40°	5006.8	20.1
40°-50°	4566.6	18.4
50°-60°	3422.7	13.8
60°-70°	2105.4	8.5
70°-80°	1206.5	4.9
80°-90°	390.6	1.6
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°	8154.4	32.8
0°-40°	13161.2	53.0
0°-60°	21150.5	85.1
0°-90°	24853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10026	10026	10026	10026	10026	
5°	9949	10050	10060	10143	10162	946
15°	9668	9882	10048	10263	10331	2729
25°	9030	9289	9549	9696	9703	4161
35°	7929	8084	8180	8046	7882	4945
45°	6122	6255	5946	5640	5560	4724
55°	4202	4046	3866	3524	3449	3754
65°	2421	2165	1946	2006	2062	2435
75°	1280	1147	1006	1152	1199	1368
85°	385	363	328	346	344	429
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10025.5	10025.5	10025.5	10025.5	*10025.5*
2.5°	9978.2	10049.8	10026.8	10085.6	*10129.0*
5°	9948.8	10049.8	10060.0	10143.1	*10162.3*
7.5°	9898.9	10030.6	10076.6	10223.6	*10256.9*
10°	9837.6	9996.1	10104.7	10263.3	*10308.0*
12.5°	*9763.5*	*9947.5*	*10085.6*	*10281.2*	*10345.1*
15°	9667.6	9882.3	10048.5	10263.3	*10331.0*
17.5°	9546.1	9795.4	9989.7	10200.6	*10270.9*
20°	9403.0	9666.3	9887.4	10103.5	*10153.3*
22.5°	9230.4	9495.0	9746.8	9941.1	*9968.0*
25°	9029.7	9289.2	9548.7	9695.7	*9703.4*
27.5°	8811.1	9052.7	9295.6	9374.9	*9340.3*
30°	8564.4	8780.5	8972.2	8988.8	*8924.9*
32.5°	8271.7	8466.0	8602.8	8567.0	*8459.6*
35°	7929.1	8083.8	8179.7	8045.5	*7881.8*
37.5°	7553.3	7669.6	7701.6	7410.1	*7223.5*
40°	7125.1	7224.8	7145.5	6740.3	*6589.5*
42.5°	6631.7	6746.7	6543.5	6143.4	*6051.3*
45°	6121.6	6254.6	5946.5	5639.7	*5560.5*
47.5°	5621.8	5743.3	5394.3	5147.6	*5030.0*
50°	5143.8	5196.2	4888.1	4609.5	*4479.1*
52.5°	4673.4	4621.0	4402.4	4056.0	*3940.9*
55°	4201.7	4045.7	3865.5	3524.2	*3448.8*
57.5°	3728.7	3511.4	3314.6	3052.5	*3023.1*
60°	3266.0	2998.8	2796.9	2640.9	*2655.0*
62.5°	2825.0	2552.7	2336.7	2286.8	*2340.5*
65°	2421.0	2165.4	1945.5	2005.6	*2061.9*
67.5°	2084.9	1839.4	1615.7	1769.1	*1813.9*
70°	1769.1	1571.0	1356.2	1554.4	*1588.9*
72.5°	1517.3	1348.6	1162.0	1355.0	*1384.4*
75°	1279.6	1146.6	1006.0	1151.7	*1199.0*
77.5°	1072.5	962.5	866.7	952.3	*1003.4*
80°	865.4	772.1	714.6	752.9	*784.9*
82.5°	634.0	573.9	531.8	548.4	*553.5*
85°	384.8	363.0	328.5	346.4	*343.9*
87.5°	126.5	144.4	152.1	136.8	*129.1*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)