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-WG-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-30SE-W-WG-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:	27052.0 lumens
Efficiency:	N/A
Efficacy:	140.2 lumens/watt
Spacing Criteria (0/90/45):	1.29 / 1.31 / 1.41
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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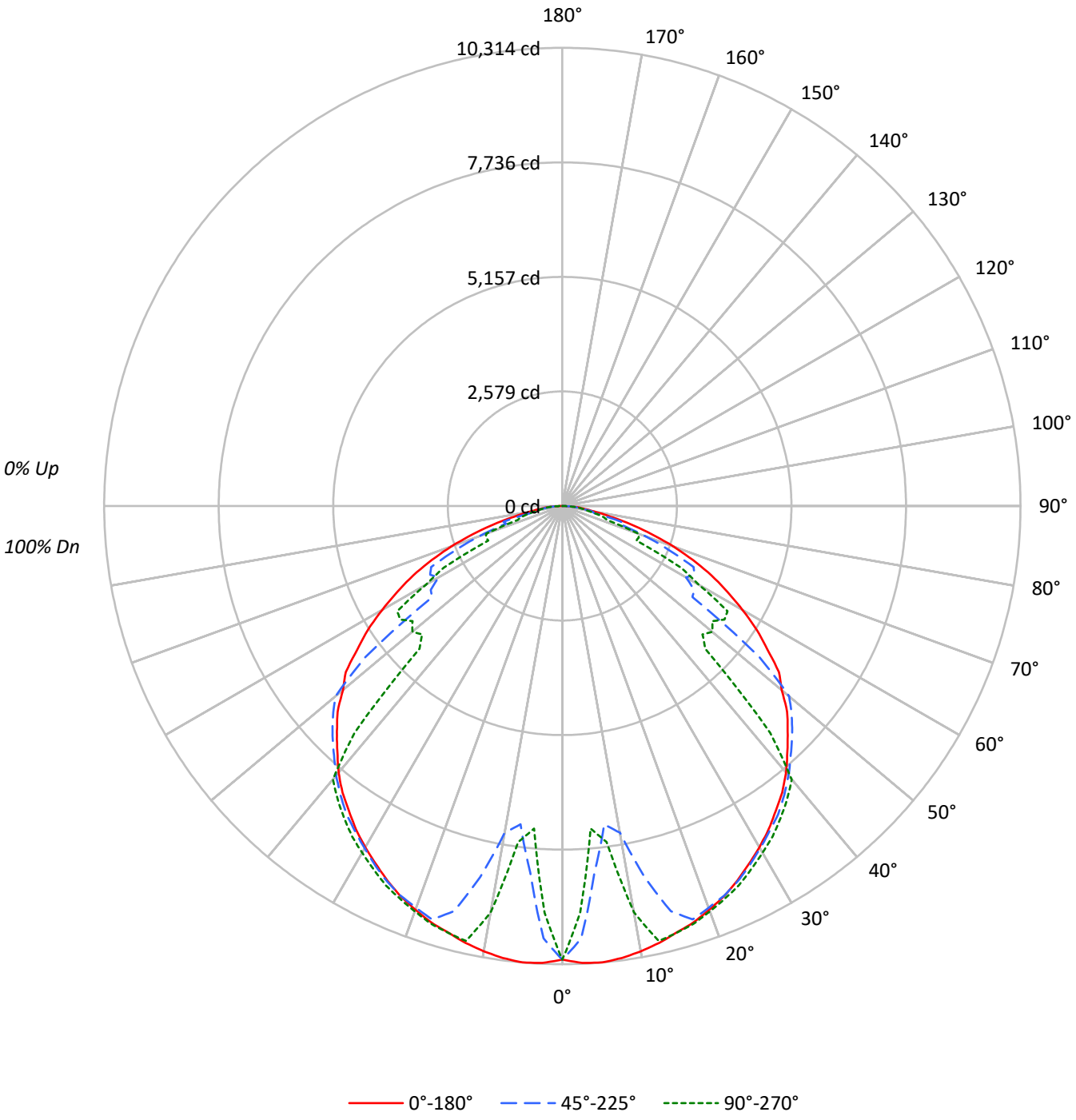
Luminous Intensity Polar Plot



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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13739	13739	13739
5°	13930	11191	9842
10°	13906	10206	12693
15°	13845	13154	13856
20°	13845	13782	13904
25°	13820	13851	13978
30°	13780	13825	14004
35°	13758	13911	14073
40°	13760	13910	14109
45°	13652	13919	8650
50°	13497	13947	9219
55°	13213	8386	10449
60°	12604	8645	9568
65°	11810	10379	5854
70°	10428	7863	7176
75°	8309	7147	4977
80°	5724	5166	4276
85°	5485	4769	4523

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.5	3.0
10°-20°	2558.1	9.5
20°-30°	4208.6	15.6
30°-40°	5291.8	19.6
40°-50°	5189.9	19.2
50°-60°	4300.1	15.9
60°-70°	3033.0	11.2
70°-80°	1323.3	4.9
80°-90°	330.6	1.2
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°	7583.3	28.0
0°-40°	12875.1	47.6
0°-60°	22365.2	82.7
0°-90°	27052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10211	10211	10211	10211	10211	
5°	10314	9600	8286	7513	7287	979
15°	9939	6902	9443	9978	9948	2811
25°	9309	8518	9330	9392	9415	4291
35°	8376	8371	8469	8525	8568	5248
45°	7175	7197	7315	6479	4546	5538
55°	5632	5817	3575	4065	4454	5039
65°	3709	3928	3260	2508	1839	3647
75°	1598	1566	1375	899	957	1714
85°	355	316	309	296	293	369
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*10211.3*	10211.3	10211.3	10211.3	10211.3
2.5°	*10295.5*	10081.8	9742.4	9315.0	9163.6
5°	*10313.8*	*9599.5*	*8285.7*	*7512.8*	*7286.9*
7.5°	*10261.3*	8724.1	7223.5	7385.8	7625.2
10°	*10178.3*	7954.8	7470.1	8788.8	9290.6
12.5°	*10072.1*	7271.1	8558.0	9928.0	10028.1
15°	*9939.0*	6902.3	9443.2	9978.0	9947.5
17.5°	*9826.6*	7118.4	9760.7	9877.9	9855.9
20°	*9669.1*	7549.5	9625.2	9719.2	9710.6
22.5°	*9510.4*	8059.8	9497.0	9564.1	9564.1
25°	*9308.9*	8517.7	9329.7	9392.0	9415.2
27.5°	*9087.9*	8781.5	9120.9	9172.2	9213.7
30°	*8869.4*	8819.3	8898.7	8964.6	9013.4
32.5°	*8638.6*	8619.1	8681.3	8750.9	8813.2
35°	*8376.1*	8371.2	8468.9	8525.0	8567.8
37.5°	*8129.4*	8112.3	8202.7	8280.8	8313.8
40°	*7834.0*	7834.0	7919.4	7998.8	8033.0
42.5°	*7497.0*	7544.6	7610.5	7692.3	6928.0
45°	*7174.6*	7196.6	7315.0	6478.6	4545.8
47.5°	*6864.5*	6892.6	7004.9	4164.8	4278.4
50°	*6448.1*	6575.1	6663.0	4152.6	4404.2
52.5°	*6144.1*	6199.0	5593.4	4111.1	4252.8
55°	*5632.5*	5816.9	3575.1	4064.7	4454.2
57.5°	*5195.4*	5329.7	3515.3	4164.8	4406.6
60°	*4683.8*	4888.9	3212.5	4018.3	3555.6
62.5°	*4192.9*	4388.3	3354.1	3162.4	3011.0
65°	*3709.4*	3928.0	3260.1	2507.9	1838.8
67.5°	*3179.5*	2975.6	2600.7	1766.8	1859.6
70°	*2650.8*	2078.1	1998.8	1975.6	1824.2
72.5°	*2107.5*	1516.5	1327.2	1482.3	1061.1
75°	*1598.3*	1566.5	1374.8	898.7	957.3
77.5°	*1108.7*	1130.6	736.3	876.7	727.7
80°	*738.7*	639.8	666.7	559.2	551.9
82.5°	*511.6*	522.6	438.3	424.9	431.0
85°	*355.3*	316.2	308.9	295.5	293.0
87.5°	*118.4*	138.0	128.2	116.0	123.3
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)