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-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 (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-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:	27990.0 lumens
Efficiency:	N/A
Efficacy:	145.0 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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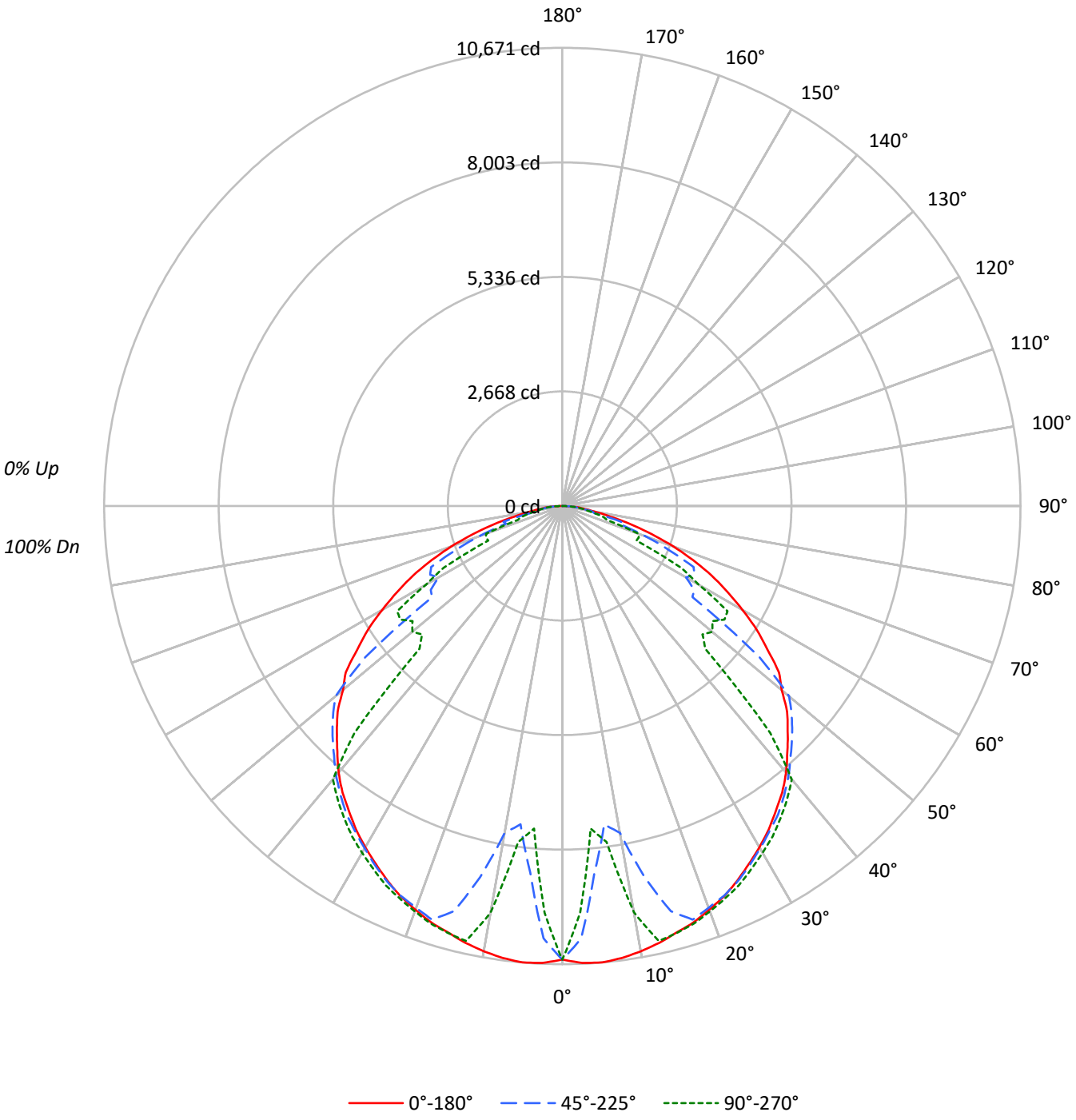
Luminous Intensity Polar Plot



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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°	14215	14215	14215
5°	14413	11579	10183
10°	14388	10560	13133
15°	14325	13610	14337
20°	14325	14260	14386
25°	14299	14331	14462
30°	14258	14305	14489
35°	14235	14393	14561
40°	14237	14392	14598
45°	14125	14402	8950
50°	13965	14431	9539
55°	13671	8677	10811
60°	13041	8944	9900
65°	12219	10739	6057
70°	10790	8136	7425
75°	8597	7395	5149
80°	5922	5345	4424
85°	5675	4934	4681

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.9	3.0
10°-20°	2646.8	9.5
20°-30°	4354.6	15.6
30°-40°	5475.3	19.6
40°-50°	5369.9	19.2
50°-60°	4449.2	15.9
60°-70°	3138.1	11.2
70°-80°	1369.1	4.9
80°-90°	342.1	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°	7846.2	28.0
0°-40°	13321.5	47.6
0°-60°	23140.7	82.7
0°-90°	27990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10565	10565	10565	10565	10565	
5°	10671	9932	8573	7773	7540	###
15°	10284	7142	9771	10324	10292	2908
25°	9632	8813	9653	9718	9742	4440
35°	8666	8662	8762	8821	8865	5430
45°	7423	7446	7569	6703	4703	5730
55°	5828	6019	3699	4206	4609	5214
65°	3838	4064	3373	2595	1903	3774
75°	1654	1621	1422	930	990	1773
85°	368	327	320	306	303	381
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*10565.3*	10565.3	10565.3	10565.3	10565.3
2.5°	*10652.5*	10431.4	10080.2	9638.0	9481.4
5°	*10671.4*	*9932.4*	*8573.0*	*7773.3*	*7539.6*
7.5°	*10617.1*	9026.6	7473.9	7641.9	7889.6
10°	*10531.2*	8230.7	7729.1	9093.5	9612.8
12.5°	*10421.3*	7523.2	8854.8	10272.2	10375.8
15°	*10283.6*	7141.7	9770.7	10324.0	10292.4
17.5°	*10167.4*	7365.3	10099.1	10220.4	10197.7
20°	*10004.4*	7811.2	9958.9	10056.2	10047.3
22.5°	*9840.2*	8339.3	9826.3	9895.7	9895.7
25°	*9631.7*	8813.1	9653.2	9717.6	9741.6
27.5°	*9403.0*	9085.9	9437.2	9490.2	9533.2
30°	*9176.9*	9125.1	9207.2	9275.4	9326.0
32.5°	*8938.1*	8917.9	8982.3	9054.4	9118.8
35°	*8666.5*	8661.5	8762.5	8820.6	8864.9
37.5°	*8411.3*	8393.6	8487.1	8568.0	8602.1
40°	*8105.6*	8105.6	8194.0	8276.1	8311.5
42.5°	*7756.9*	7806.2	7874.4	7959.0	7168.2
45°	*7423.4*	7446.1	7568.7	6703.3	4703.4
47.5°	*7102.5*	7131.6	7247.8	4309.3	4426.7
50°	*6671.7*	6803.1	6894.0	4296.6	4556.9
52.5°	*6357.1*	6414.0	5787.4	4253.7	4400.2
55°	*5827.8*	6018.6	3699.1	4205.7	4608.7
57.5°	*5375.5*	5514.5	3637.2	4309.3	4559.4
60°	*4846.2*	5058.4	3323.8	4157.7	3678.8
62.5°	*4338.3*	4540.4	3470.4	3272.1	3115.4
65°	*3838.0*	4064.2	3373.1	2594.9	1902.6
67.5°	*3289.7*	3078.8	2690.9	1828.1	1924.1
70°	*2742.7*	2150.2	2068.1	2044.1	1887.4
72.5°	*2180.5*	1569.1	1373.3	1533.7	1097.8
75°	*1653.7*	1620.9	1422.5	929.8	990.5
77.5°	*1147.1*	1169.9	761.8	907.1	753.0
80°	*764.3*	662.0	689.8	578.6	571.0
82.5°	*529.3*	540.7	453.5	439.6	446.0
85°	*367.6*	327.2	319.6	305.7	303.2
87.5°	*122.5*	142.8	132.7	120.0	127.6
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)