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-LD5-18SE-W-CL-UNV-L850-ED1-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 (P23762)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-18SE-W-CL-UNV-L850-ED1-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:	17454.0 lumens
Efficiency:	N/A
Efficacy:	143.3 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.41
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	121.76
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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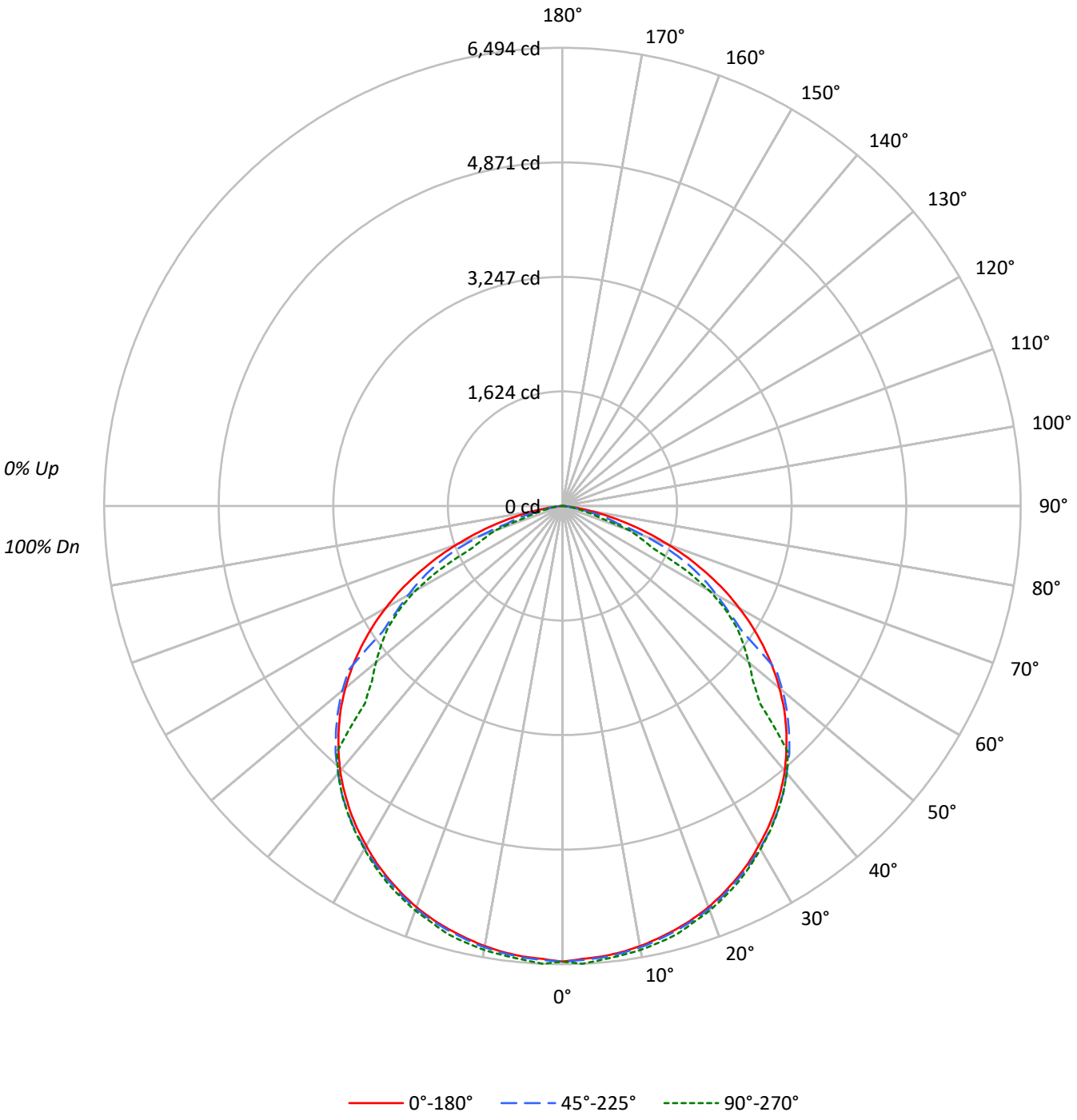
Luminous Intensity Polar Plot



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8687	8687	8687
5°	8655	8674	8717
10°	8654	8679	8729
15°	8654	8680	8750
20°	8664	8697	8738
25°	8655	8687	8740
30°	8638	8702	8721
35°	8634	8713	8719
40°	8607	8683	8683
45°	8534	8637	7525
50°	8402	8528	7220
55°	8163	7300	7092
60°	7780	6786	6479
65°	7195	6299	4487
70°	6265	4902	3998
75°	4949	3290	2150
80°	3185	1571	1340
85°	1311	959	1056

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.4	3.5
10°-20°	1765.2	10.1
20°-30°	2706.4	15.5
30°-40°	3317.0	19.0
40°-50°	3410.2	19.5
50°-60°	2910.4	16.7
60°-70°	1924.1	11.0
70°-80°	712.9	4.1
80°-90°	95.3	0.5
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°	5084.0	29.1
0°-40°	8401.1	48.1
0°-60°	14721.7	84.3
0°-90°	17454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6456	6456	6456	6456	6456	
5°	6408	6453	6422	6448	6454	609
15°	6212	6250	6231	6278	6282	1755
25°	5830	5860	5852	5904	5887	2688
35°	5257	5293	5304	5338	5308	3288
45°	4485	4530	4539	4532	3955	3456
55°	3480	3544	3112	3022	3023	3105
65°	2260	2279	1979	1627	1410	2228
75°	952	834	633	425	414	1021
85°	85	60	62	68	68	140
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6456.2	6456.2	6456.2	6456.2	*6456.2*
2.5°	*6424.7*	*6464.8*	*6441.2*	*6471.1*	*6493.9*
5°	6408.2	6453.0	6422.4	6447.5	*6453.8*
7.5°	6379.9	6421.6	6393.3	6426.3	*6421.6*
10°	6334.3	6372.1	6352.4	6387.0	*6389.4*
12.5°	6276.2	6313.9	6295.8	6338.3	*6337.5*
15°	6212.5	6250.2	6231.3	6278.5	*6281.7*
17.5°	6137.8	6172.4	6158.2	6201.5	*6184.2*
20°	6051.3	6081.2	6074.1	6115.0	*6102.4*
22.5°	5945.2	5975.9	5968.8	6016.0	*5997.1*
25°	5829.7	5860.3	5851.7	5904.3	*5887.0*
27.5°	5704.7	5733.8	5733.0	5782.5	*5755.8*
30°	5560.0	5598.5	5600.9	5644.9	*5613.5*
32.5°	5417.0	5453.1	5463.3	5495.6	*5468.8*
35°	5256.6	5292.8	5304.5	5337.6	*5308.5*
37.5°	5083.7	5114.3	5135.5	5159.9	*5137.1*
40°	4900.5	4928.0	4943.7	4973.6	*4943.7*
42.5°	4696.1	4735.4	4757.4	4778.6	*4729.9*
45°	4484.7	4529.5	4538.9	4531.8	*3954.8*
47.5°	4260.6	4309.4	4314.9	3763.0	*3656.9*
50°	4013.8	4075.1	4074.3	3477.7	*3449.4*
52.5°	3756.7	3815.7	3813.3	3254.4	*3235.6*
55°	3480.0	3543.7	3112.1	3021.7	*3023.3*
57.5°	3197.8	3243.4	2792.2	2796.1	*2744.2*
60°	2891.2	2934.5	2521.8	2497.4	*2407.8*
62.5°	2583.9	2602.0	2260.0	2141.3	*1970.7*
65°	2260.0	2278.9	1978.6	1627.2	*1409.5*
67.5°	1927.5	1946.4	1642.1	1210.6	*1194.1*
70°	1592.6	1438.5	1246.0	1008.6	*1016.4*
72.5°	1262.5	1105.2	814.4	781.4	*564.4*
75°	952.0	834.0	632.8	425.3	*413.5*
77.5°	662.7	574.6	338.8	290.1	*271.2*
80°	411.1	288.5	202.8	180.0	*172.9*
82.5°	208.3	165.9	110.1	110.1	*110.1*
85°	84.9	60.5	62.1	67.6	*68.4*
87.5°	18.1	24.4	29.9	30.7	*29.9*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)