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-WG-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-18SE-W-WG-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:	17927.0 lumens
Efficiency:	N/A
Efficacy:	147.2 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):	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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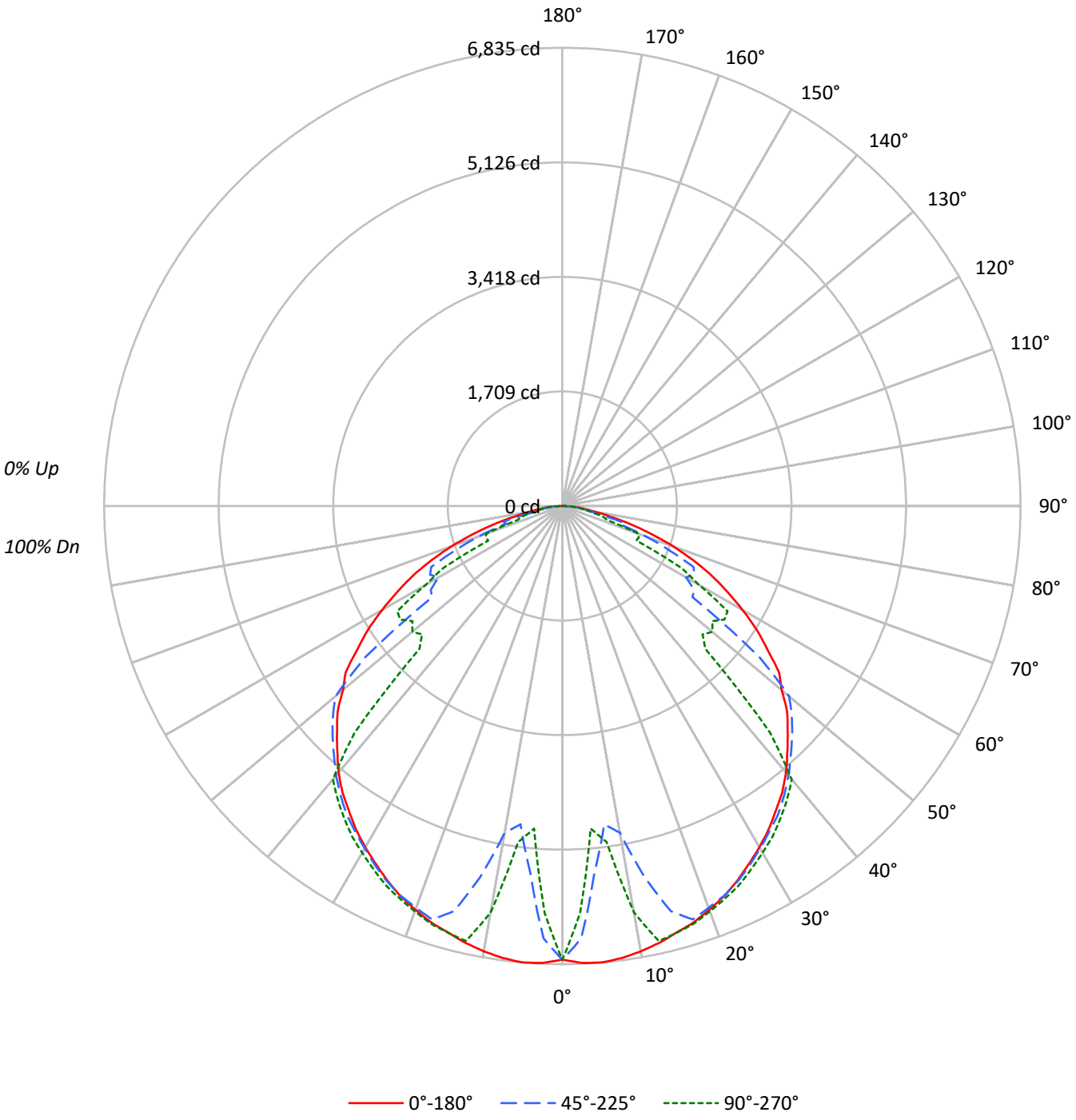
Luminous Intensity Polar Plot



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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	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°	9105	9105	9105
5°	9231	7416	6522
10°	9215	6763	8412
15°	9175	8717	9182
20°	9175	9133	9214
25°	9158	9179	9263
30°	9132	9162	9280
35°	9117	9218	9326
40°	9118	9218	9350
45°	9047	9224	5732
50°	8944	9243	6109
55°	8756	5558	6924
60°	8353	5729	6340
65°	7826	6878	3880
70°	6910	5211	4756
75°	5506	4736	3298
80°	3793	3423	2834
85°	3636	3160	2998

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.1	3.0
10°-20°	1695.2	9.5
20°-30°	2789.0	15.6
30°-40°	3506.8	19.6
40°-50°	3439.3	19.2
50°-60°	2849.6	15.9
60°-70°	2009.9	11.2
70°-80°	876.9	4.9
80°-90°	219.1	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°	5025.3	28.0
0°-40°	8532.2	47.6
0°-60°	14821.1	82.7
0°-90°	17927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6767	6767	6767	6767	6767	
5°	6835	6362	5491	4979	4829	649
15°	6586	4574	6258	6612	6592	1862
25°	6169	5645	6183	6224	6239	2843
35°	5551	5548	5612	5649	5678	3478
45°	4754	4769	4848	4293	3012	3670
55°	3733	3855	2369	2694	2952	3340
65°	2458	2603	2160	1662	1219	2417
75°	1059	1038	911	596	634	1136
85°	236	210	205	196	194	244
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*6766.9*	6766.9	6766.9	6766.9	6766.9
2.5°	*6822.7*	6681.1	6456.1	6172.9	6072.6
5°	*6834.8*	*6361.5*	*5490.8*	*4978.7*	*4829.0*
7.5°	*6800.0*	5781.3	4786.9	4894.5	5053.1
10°	*6745.0*	5271.6	4950.3	5824.2	6156.8
12.5°	*6674.6*	4818.4	5671.3	6579.1	6645.5
15°	*6586.4*	4574.1	6257.9	6612.3	6592.1
17.5°	*6512.0*	4717.3	6468.3	6546.0	6531.4
20°	*6407.6*	5002.9	6378.5	6440.8	6435.1
22.5°	*6302.4*	5341.2	6293.5	6338.0	6338.0
25°	*6168.9*	5644.6	6182.7	6223.9	6239.3
27.5°	*6022.4*	5819.4	6044.3	6078.3	6105.8
30°	*5877.6*	5844.4	5897.0	5940.7	5973.1
32.5°	*5724.7*	5711.7	5753.0	5799.1	5840.4
35°	*5550.7*	5547.5	5612.2	5649.4	5677.8
37.5°	*5387.3*	5375.9	5435.8	5487.6	5509.5
40°	*5191.5*	5191.5	5248.1	5300.7	5323.3
42.5°	*4968.1*	4999.7	5043.4	5097.6	4591.1
45°	*4754.5*	4769.1	4847.6	4293.3	3012.4
47.5°	*4549.0*	4567.6	4642.1	2760.0	2835.2
50°	*4273.1*	4357.2	4415.5	2751.9	2918.6
52.5°	*4071.6*	4108.0	3706.7	2724.4	2818.2
55°	*3732.6*	3854.8	2369.2	2693.6	2951.8
57.5°	*3442.9*	3531.9	2329.5	2760.0	2920.2
60°	*3103.9*	3239.8	2128.9	2662.9	2356.2
62.5°	*2778.6*	2908.1	2222.7	2095.7	1995.3
65°	*2458.2*	2603.0	2160.4	1662.0	1218.6
67.5°	*2107.0*	1971.9	1723.5	1170.8	1232.3
70°	*1756.6*	1377.2	1324.6	1309.2	1208.9
72.5°	*1396.6*	1005.0	879.5	982.3	703.1
75°	*1059.2*	1038.1	911.1	595.5	634.4
77.5°	*734.7*	749.3	487.9	581.0	482.2
80°	*489.5*	424.0	441.8	370.6	365.7
82.5°	*339.0*	346.3	290.5	281.6	285.6
85°	*235.5*	209.6	204.7	195.8	194.2
87.5°	*78.5*	91.4	85.0	76.9	81.7
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)