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-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 (P23760)
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-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:	18930.0 lumens
Efficiency:	N/A
Efficacy:	155.5 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.42
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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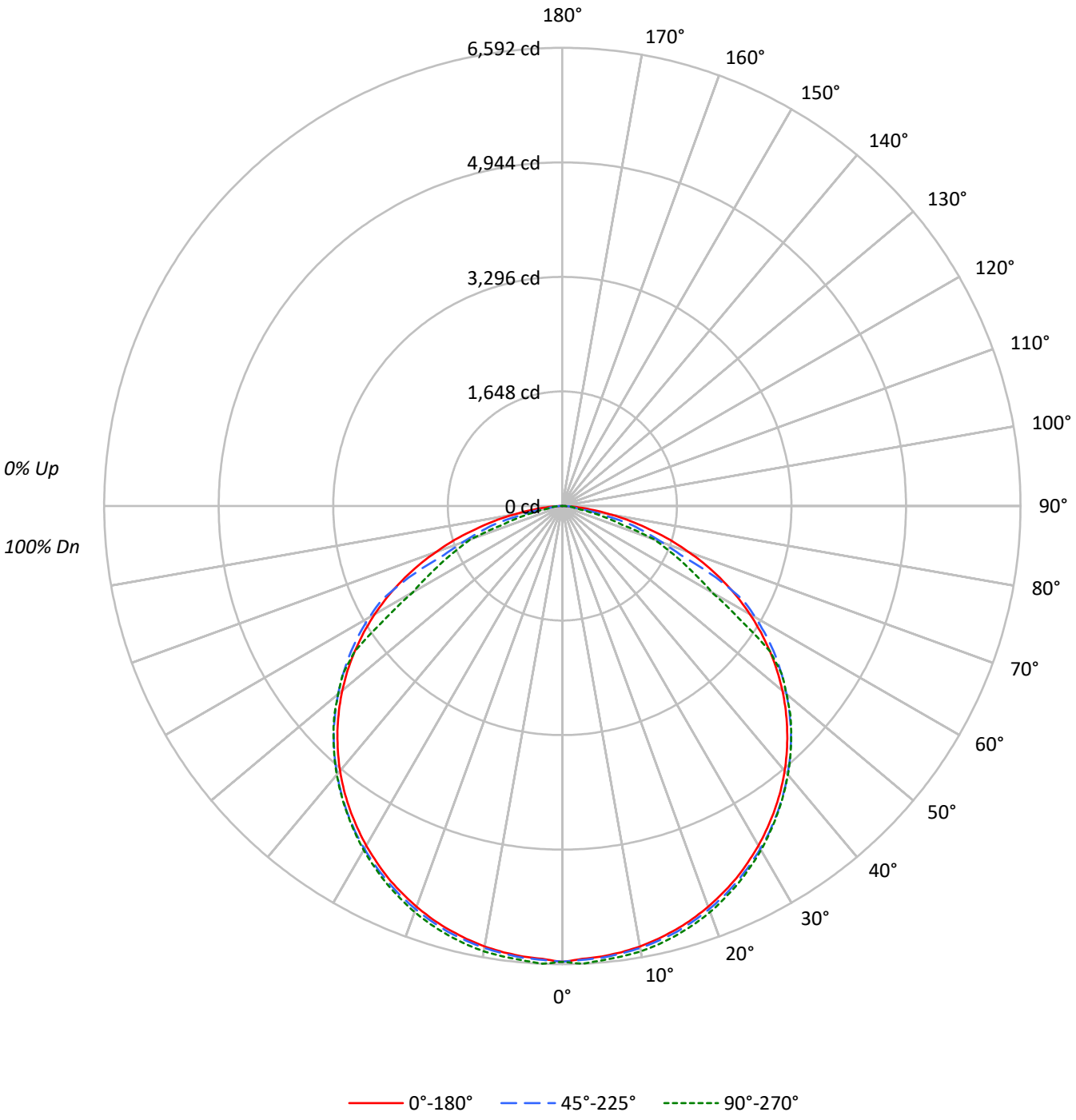
Luminous Intensity Polar Plot



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8823	8823	8823
5°	8786	8811	8861
10°	8791	8822	8889
15°	8789	8836	8897
20°	8784	8841	8903
25°	8781	8844	8893
30°	8766	8851	8884
35°	8755	8855	8867
40°	8739	8855	8869
45°	8706	8851	8862
50°	8654	8814	8812
55°	8553	8767	8549
60°	8394	8638	6689
65°	8114	7774	6027
70°	7602	5981	5554
75°	6731	5215	3462
80°	5543	3070	1547
85°	3653	1882	2027

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.2	3.3
10°-20°	1795.2	9.5
20°-30°	2752.3	14.5
30°-40°	3375.4	17.8
40°-50°	3584.1	18.9
50°-60°	3273.7	17.3
60°-70°	2279.8	12.0
70°-80°	1063.3	5.6
80°-90°	183.9	1.0
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°	5169.8	27.3
0°-40°	8545.2	45.1
0°-60°	15403.0	81.4
0°-90°	18930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6557	6557	6557	6557	6557	
5°	6505	6551	6523	6555	6560	619
15°	6310	6354	6343	6382	6387	1782
25°	5915	5967	5957	6001	5990	2726
35°	5330	5391	5391	5428	5398	3335
45°	4575	4644	4652	4682	4657	3529
55°	3646	3719	3737	3744	3644	3256
65°	2549	2627	2442	1942	1893	2515
75°	1295	1376	1003	695	666	1384
85°	237	156	122	130	131	306
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6557.2	6557.2	6557.2	6557.2	*6557.2*
2.5°	*6522.6*	*6564.3*	*6536.7*	*6566.6*	*6591.8*
5°	6505.3	6550.9	6523.4	6554.8	*6560.3*
7.5°	6477.0	6520.2	6495.1	6529.7	*6538.3*
10°	6434.5	6477.0	6457.3	6498.2	*6506.1*
12.5°	6377.2	6420.4	6405.5	6450.3	*6455.8*
15°	6309.5	6353.6	6343.4	6381.9	*6387.4*
17.5°	6230.1	6275.7	6264.0	6304.8	*6308.8*
20°	6135.0	6184.6	6174.3	6222.3	*6217.6*
22.5°	6028.1	6080.8	6072.9	6120.9	*6106.7*
25°	5914.9	5966.8	5957.4	6001.4	*5990.4*
27.5°	5782.0	5839.4	5830.8	5873.2	*5855.9*
30°	5642.1	5700.3	5697.1	5735.7	*5718.4*
32.5°	5491.2	5553.3	5550.1	5587.9	*5561.1*
35°	5330.0	5391.3	5391.3	5427.5	*5398.4*
37.5°	5159.4	5221.5	5222.3	5256.9	*5229.4*
40°	4975.5	5037.6	5041.5	5074.5	*5049.4*
42.5°	4782.1	4849.7	4852.8	4882.7	*4859.1*
45°	4575.3	4644.5	4651.6	4681.5	*4657.1*
47.5°	4359.1	4429.1	4435.4	4467.6	*4450.3*
50°	4134.3	4201.9	4210.6	4237.3	*4209.8*
52.5°	3896.9	3966.1	3977.9	3994.4	*3981.8*
55°	3646.1	3719.2	3737.3	3743.6	*3644.5*
57.5°	3386.7	3461.4	3478.7	3334.0	*3015.6*
60°	3119.4	3193.3	3209.8	2712.2	*2485.8*
62.5°	2841.1	2913.4	2931.5	2247.6	*2175.2*
65°	2548.7	2627.3	2441.7	1941.8	*1893.0*
67.5°	2248.4	2329.3	1846.6	1664.3	*1635.2*
70°	1932.3	2014.1	1520.4	1419.0	*1411.9*
72.5°	1628.9	1689.4	1247.6	1075.4	*905.6*
75°	1294.8	1376.5	1003.1	694.9	*665.9*
77.5°	1003.9	867.9	605.3	509.4	*401.7*
80°	715.4	580.2	396.2	211.5	*199.7*
82.5°	453.6	378.9	155.7	159.6	*166.7*
85°	236.6	155.7	121.9	130.5	*131.3*
87.5°	76.3	66.8	73.1	72.3	*71.5*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)