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-N-CLI-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 (P23769)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-18SE-N-CLI-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:	15580.0 lumens
Efficiency:	N/A
Efficacy:	128.0 lumens/watt
Spacing Criteria (0/90/45):	1.24 / 0.64 / 0.78
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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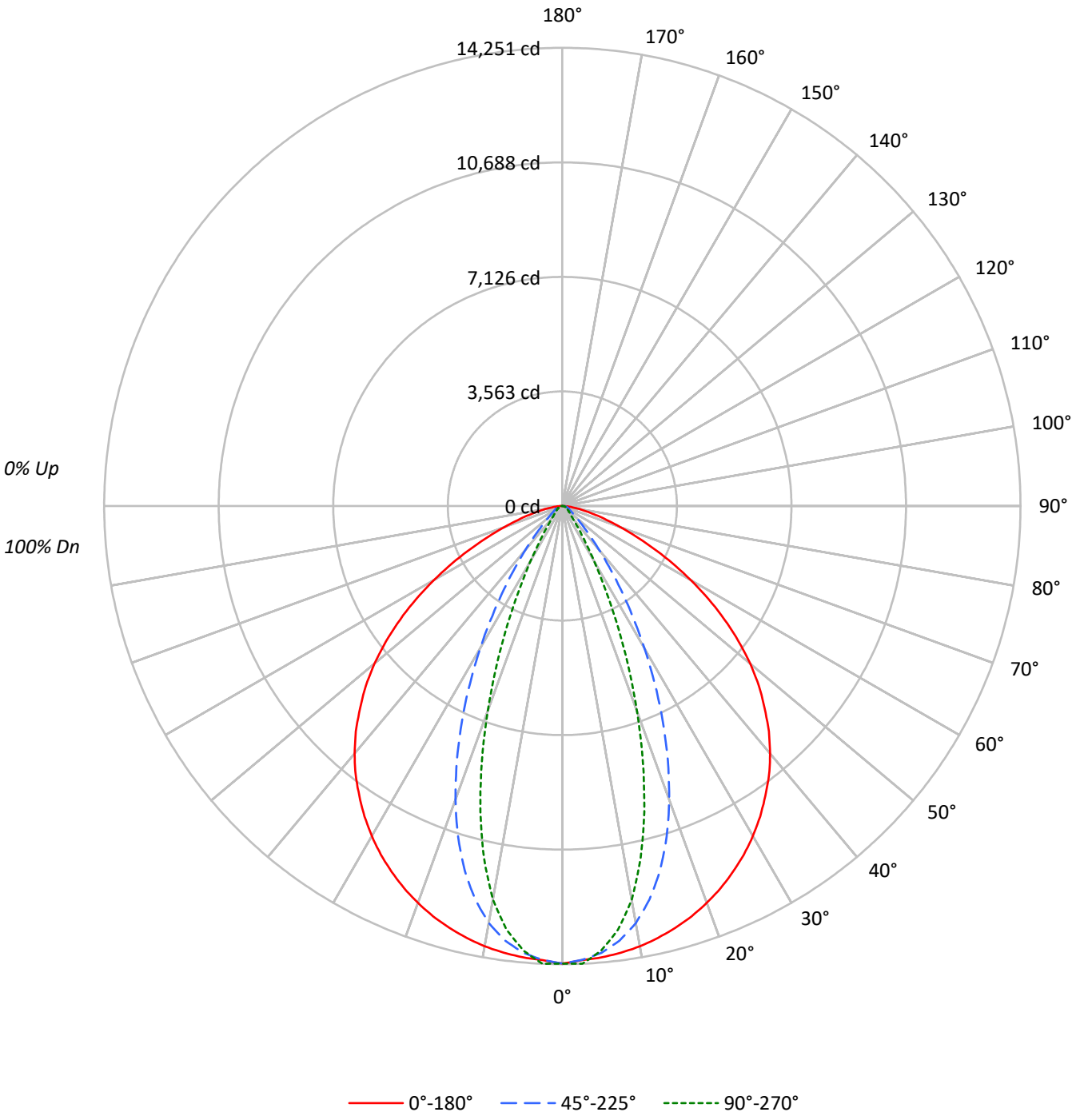
Luminous Intensity Polar Plot



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19148	19148	19148
5°	19033	18843	18744
10°	19001	17990	16976
15°	18924	16353	13710
20°	18811	13915	9717
25°	18643	10972	5871
30°	18416	7919	3017
35°	18084	5177	1507
40°	17655	3110	879
45°	16921	1857	657
50°	15960	1214	552
55°	14445	921	482
60°	12413	785	440
65°	9985	716	415
70°	7522	767	413
75°	5533	729	425
80°	4048	726	465
85°	3032	880	602

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1310.6	8.4
10°-20°	3260.5	20.9
20°-30°	3611.5	23.2
30°-40°	2893.5	18.6
40°-50°	2065.6	13.3
50°-60°	1326.8	8.5
60°-70°	719.0	4.6
70°-80°	307.3	2.0
80°-90°	85.2	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°	8182.7	52.5
0°-40°	11076.1	71.1
0°-60°	14468.5	92.9
0°-90°	15580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14231	14231	14231	14231	14231	
5°	14092	14144	13952	13907	13878	###
15°	13586	13161	11740	10375	9842	3833
25°	12557	11072	7391	4815	3955	5785
35°	11010	7963	3152	1271	918	6884
45°	8893	4597	976	415	346	6854
55°	6158	2055	393	241	205	5488
65°	3136	844	225	155	130	3141
75°	1064	309	140	97	82	1183
85°	196	82	57	47	39	240
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14231.2	14231.2	14231.2	14231.2	*14231.2*
2.5°	*14137.5*	*14226.0*	*14130.8*	*14190.0*	*14250.7*
5°	14091.8	14144.3	13951.6	13907.4	*13878.2*
7.5°	14012.3	13997.3	13635.3	13400.7	*13287.5*
10°	13907.4	13786.0	13167.6	12651.9	*12425.5*
12.5°	13757.5	13507.1	12534.2	11628.7	*11244.9*
15°	13585.8	13160.8	11739.7	10374.7	*9842.5*
17.5°	13380.5	12756.1	10790.0	9030.0	*8327.6*
20°	13137.6	12267.3	9718.1	7601.3	*6786.5*
22.5°	12866.2	11703.7	8570.5	6177.1	*5303.2*
25°	12557.4	11072.5	7390.7	4815.2	*3954.7*
27.5°	12223.9	10371.7	6217.6	3597.9	*2813.1*
30°	11853.6	9613.1	5097.0	2594.2	*1942.1*
32.5°	11449.6	8806.6	4055.9	1824.4	*1328.2*
35°	11009.6	7963.4	3151.9	1271.3	*917.5*
37.5°	10559.1	7102.9	2380.6	898.7	*658.1*
40°	10051.6	6245.4	1770.5	658.1	*500.7*
42.5°	9506.7	5404.3	1310.2	506.7	*405.5*
45°	8892.8	4597.1	975.9	415.3	*345.5*
47.5°	8297.7	3844.5	741.3	353.8	*300.6*
50°	7624.6	3165.4	580.2	308.8	*263.8*
52.5°	6910.2	2568.0	470.7	272.1	*232.4*
55°	6157.7	2055.3	392.8	241.4	*205.4*
57.5°	5395.4	1628.1	335.8	215.1	*182.9*
60°	4612.8	1302.0	291.6	192.6	*163.4*
62.5°	3849.0	1041.1	254.9	173.1	*146.2*
65°	3136.2	844.0	224.9	155.2	*130.4*
67.5°	2477.3	667.1	209.9	139.4	*117.7*
70°	1912.1	519.4	194.9	124.4	*104.9*
72.5°	1448.9	398.8	172.4	110.9	*92.9*
75°	1064.4	308.8	140.2	97.4	*81.7*
77.5°	761.6	237.6	113.9	84.7	*70.5*
80°	522.4	176.9	93.7	72.7	*60.0*
82.5°	339.6	125.2	75.7	60.0	*49.5*
85°	196.4	81.7	57.0	47.2	*39.0*
87.5°	84.7	45.0	39.0	35.2	*30.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)