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-LD5-12SE-W-AI-UNV-L750-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 (P23765)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-12SE-W-AI-UNV-L750-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:	11145.0 lumens
Efficiency:	N/A
Efficacy:	145.5 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 1.16 / 1.26
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	76.6
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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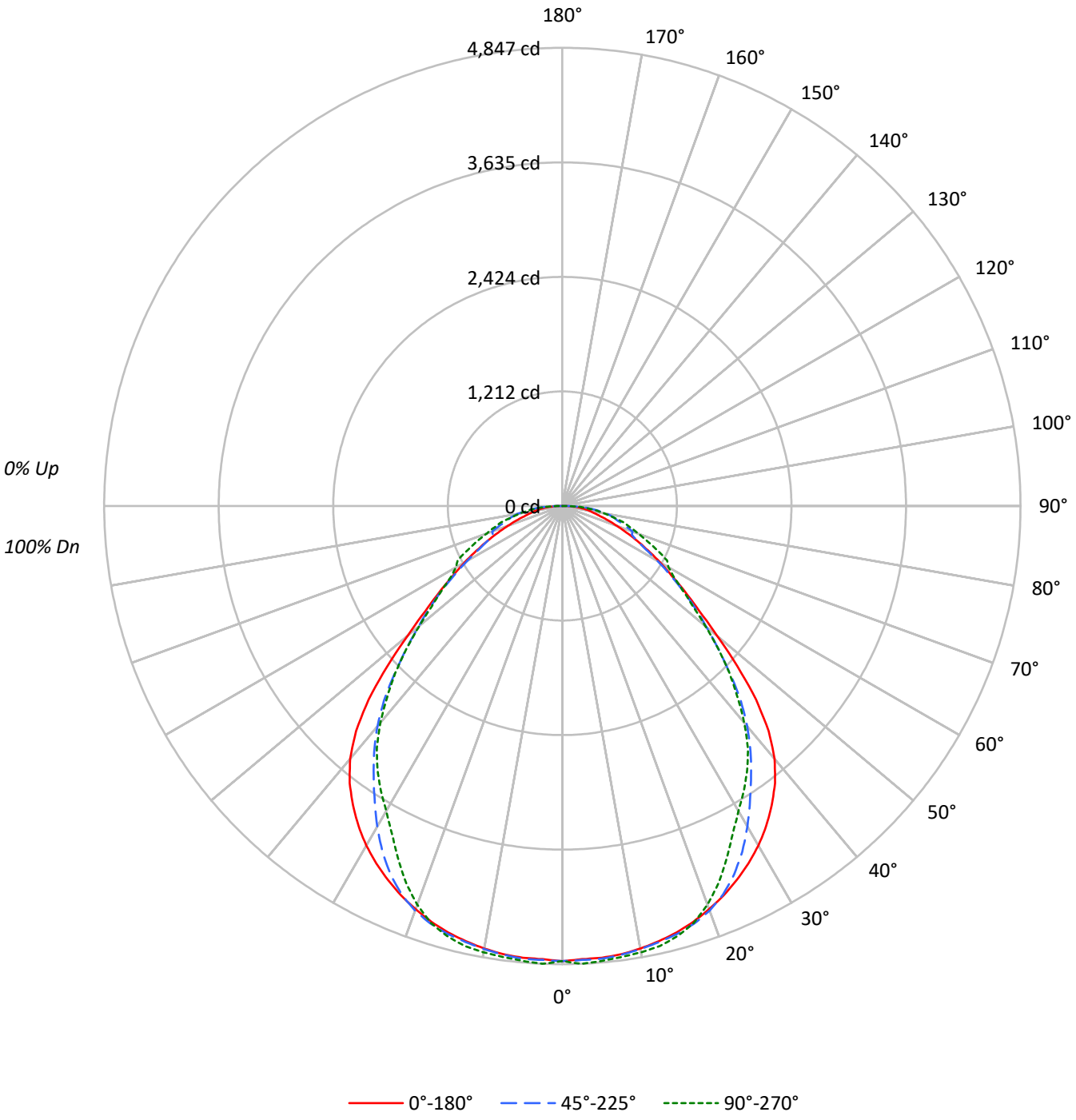
Luminous Intensity Polar Plot



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6479	6479	6479
5°	6478	6492	6524
10°	6494	6503	6550
15°	6504	6529	6561
20°	6498	6522	6425
25°	6481	6384	6107
30°	6443	6083	5787
35°	6346	5717	5598
40°	6134	5346	5257
45°	5513	4773	4756
50°	4472	4158	4129
55°	3713	3644	3643
60°	3215	3121	3489
65°	2786	2769	3517
70°	2402	3106	3353
75°	2154	3183	3495
80°	2239	3747	3506
85°	2543	4318	4006

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.5	4.1
10°-20°	1324.0	11.9
20°-30°	1966.5	17.6
30°-40°	2232.5	20.0
40°-50°	1995.8	17.9
50°-60°	1379.9	12.4
60°-70°	910.5	8.2
70°-80°	614.3	5.5
80°-90°	263.1	2.4
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°	3749.0	33.6
0°-40°	5981.5	53.7
0°-60°	9357.1	84.0
0°-90°	11145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4815	4815	4815	4815	4815	
5°	4796	4826	4807	4826	4830	457
15°	4669	4692	4687	4713	4710	1318
25°	4366	4407	4300	4172	4113	2012
35°	3864	3782	3481	3430	3408	2409
45°	2897	2652	2509	2528	2499	2203
55°	1583	1445	1553	1532	1553	1438
65°	875	777	870	1017	1105	873
75°	414	521	612	654	672	453
85°	165	229	280	281	260	172
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4815.0	4815.0	4815.0	4815.0	*4815.0*
2.5°	*4798.6*	*4828.6*	*4806.3*	*4827.0*	*4847.2*
5°	4796.4	4825.9	4806.8	4826.4	*4830.3*
7.5°	4782.8	4810.1	4787.7	4806.8	*4811.2*
10°	4753.4	4785.5	4759.4	4788.8	*4794.3*
12.5°	4715.2	4747.9	4725.0	4765.4	*4767.5*
15°	4669.4	4691.8	4686.9	4713.0	*4709.8*
17.5°	4611.6	4637.2	4633.4	4640.0	*4624.7*
20°	4538.0	4566.9	4554.9	4524.9	*4487.3*
22.5°	4458.9	4493.8	4446.4	4370.6	*4317.7*
25°	4365.7	4407.1	4300.3	4172.2	*4113.3*
27.5°	4262.7	4299.7	4122.0	3965.0	*3903.9*
30°	4147.1	4162.9	3915.3	3765.9	*3724.5*
32.5°	4013.5	3990.6	3694.5	3595.8	*3571.8*
35°	3863.5	3782.3	3480.8	3430.1	*3408.3*
37.5°	3694.5	3545.7	3269.8	3246.3	*3223.4*
40°	3492.2	3272.5	3043.5	3028.2	*2993.3*
42.5°	3231.1	2975.4	2792.2	2774.2	*2743.1*
45°	2897.4	2652.0	2508.6	2527.7	*2499.4*
47.5°	2513.5	2327.6	2236.6	2288.9	*2236.6*
50°	2136.2	2011.4	1986.3	2033.7	*1972.7*
52.5°	1827.1	1714.8	1766.6	1774.7	*1738.2*
55°	1582.8	1444.9	1553.4	1531.6	*1552.8*
57.5°	1370.2	1215.9	1349.5	1324.4	*1397.4*
60°	1194.6	1021.2	1159.7	1154.3	*1296.6*
62.5°	1022.3	883.8	995.1	1075.2	*1250.2*
65°	875.1	777.0	869.7	1016.9	*1104.6*
67.5°	733.9	696.8	795.5	877.3	*973.2*
70°	610.7	629.7	789.5	774.2	*852.2*
72.5°	507.1	572.0	696.8	699.5	*754.6*
75°	414.4	521.2	612.3	654.3	*672.3*
77.5°	344.6	472.7	552.9	567.6	*550.1*
80°	289.0	416.6	483.6	477.1	*452.5*
82.5°	233.4	315.7	381.1	387.1	*358.2*
85°	164.7	229.0	279.7	281.3	*259.5*
87.5°	88.3	141.2	169.6	174.5	*161.4*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)