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-A-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 (P23761)
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-A-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:	11106.0 lumens
Efficiency:	N/A
Efficacy:	145.0 lumens/watt
Spacing Criteria (0/90/45):	1.23 / 1.2 / 1.27
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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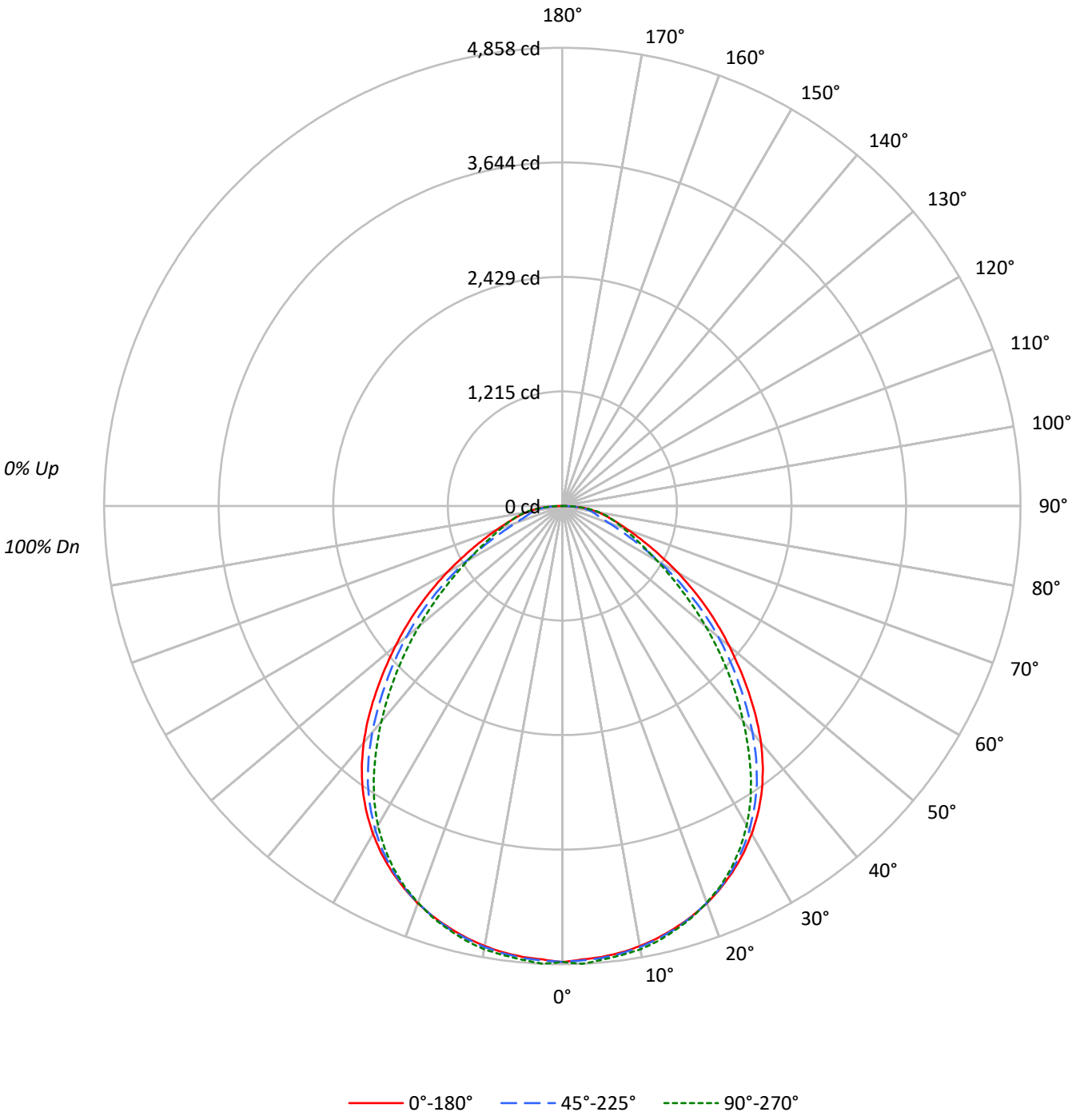
Luminous Intensity Polar Plot



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6505	6505	6505
5°	6482	6497	6523
10°	6473	6488	6520
15°	6451	6464	6479
20°	6417	6413	6408
25°	6348	6326	6290
30°	6238	6163	6073
35°	6057	5905	5723
40°	5756	5508	5244
45°	5317	5020	4716
50°	4833	4521	4149
55°	4346	3914	3586
60°	3803	3198	3112
65°	3279	2515	2809
70°	2924	2053	2707
75°	2800	2004	2829
80°	3029	2370	3151
85°	3401	2853	3435

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.2	4.1
10°-20°	1311.3	11.8
20°-30°	1961.6	17.7
30°-40°	2238.1	20.2
40°-50°	2037.3	18.3
50°-60°	1495.9	13.5
60°-70°	883.3	8.0
70°-80°	506.2	4.6
80°-90°	214.0	1.9
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°	3731.2	33.6
0°-40°	5969.3	53.7
0°-60°	9502.5	85.6
0°-90°	11106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4835	4835	4835	4835	4835	
5°	4799	4829	4810	4829	4830	456
15°	4631	4657	4640	4657	4651	1307
25°	4276	4291	4261	4259	4237	1968
35°	3687	3670	3595	3533	3484	2297
45°	2794	2778	2638	2520	2479	2153
55°	1853	1767	1668	1547	1529	1657
65°	1030	899	790	845	882	1036
75°	539	462	386	503	544	581
85°	220	203	185	218	222	230
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4834.6	4834.6	4834.6	4834.6	*4834.6*
2.5°	*4812.3*	*4840.1*	*4822.6*	*4841.7*	*4858.1*
5°	4799.2	4829.2	4810.1	4829.2	*4829.7*
7.5°	4775.2	4803.0	4784.5	4805.2	*4803.0*
10°	4737.6	4765.4	4748.5	4770.8	*4772.5*
12.5°	4689.6	4716.3	4698.9	4724.5	*4720.1*
15°	4631.3	4656.9	4640.5	4656.9	*4651.4*
17.5°	4562.6	4586.0	4564.7	4582.7	*4573.5*
20°	4481.9	4501.5	4478.6	4495.5	*4475.3*
22.5°	4385.4	4402.8	4378.8	4388.1	*4367.4*
25°	4275.8	4291.0	4261.0	4259.4	*4237.0*
27.5°	4153.6	4161.8	4123.6	4110.6	*4084.9*
30°	4015.1	4017.3	3966.6	3942.1	*3908.8*
32.5°	3859.7	3854.3	3789.4	3752.9	*3712.0*
35°	3687.4	3669.5	3594.8	3533.1	*3484.1*
37.5°	3492.8	3464.4	3375.0	3284.0	*3237.1*
40°	3276.9	3243.6	3136.2	3023.3	*2985.7*
42.5°	3041.9	3013.5	2887.0	2769.3	*2732.2*
45°	2794.3	2778.0	2638.4	2520.1	*2478.7*
47.5°	2546.8	2534.8	2398.5	2278.0	*2227.8*
50°	2309.1	2282.9	2159.7	2027.7	*1981.9*
52.5°	2078.4	2025.0	1916.5	1781.3	*1747.5*
55°	1852.7	1767.1	1668.4	1547.4	*1528.8*
57.5°	1629.2	1518.5	1422.5	1332.0	*1331.5*
60°	1413.3	1286.8	1188.6	1141.2	*1156.5*
62.5°	1211.0	1081.2	974.9	978.2	*1006.0*
65°	1030.0	899.1	790.1	845.1	*882.2*
67.5°	874.6	749.7	639.0	741.5	*777.0*
70°	743.2	630.3	521.8	649.9	*688.1*
72.5°	632.5	537.6	440.0	573.6	*612.3*
75°	538.7	461.8	385.5	502.7	*544.1*
77.5°	462.4	394.2	345.7	435.1	*478.2*
80°	390.9	331.0	305.9	369.7	*406.7*
82.5°	309.7	268.3	253.5	300.4	*319.5*
85°	220.3	203.4	184.8	218.1	*222.5*
87.5°	121.0	125.4	103.6	125.4	*126.0*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)