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-N-UNV-L740-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 (P23767)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-12SE-N-UNV-L740-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:	11261.0 lumens
Efficiency:	N/A
Efficacy:	147.0 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.62 / 0.77
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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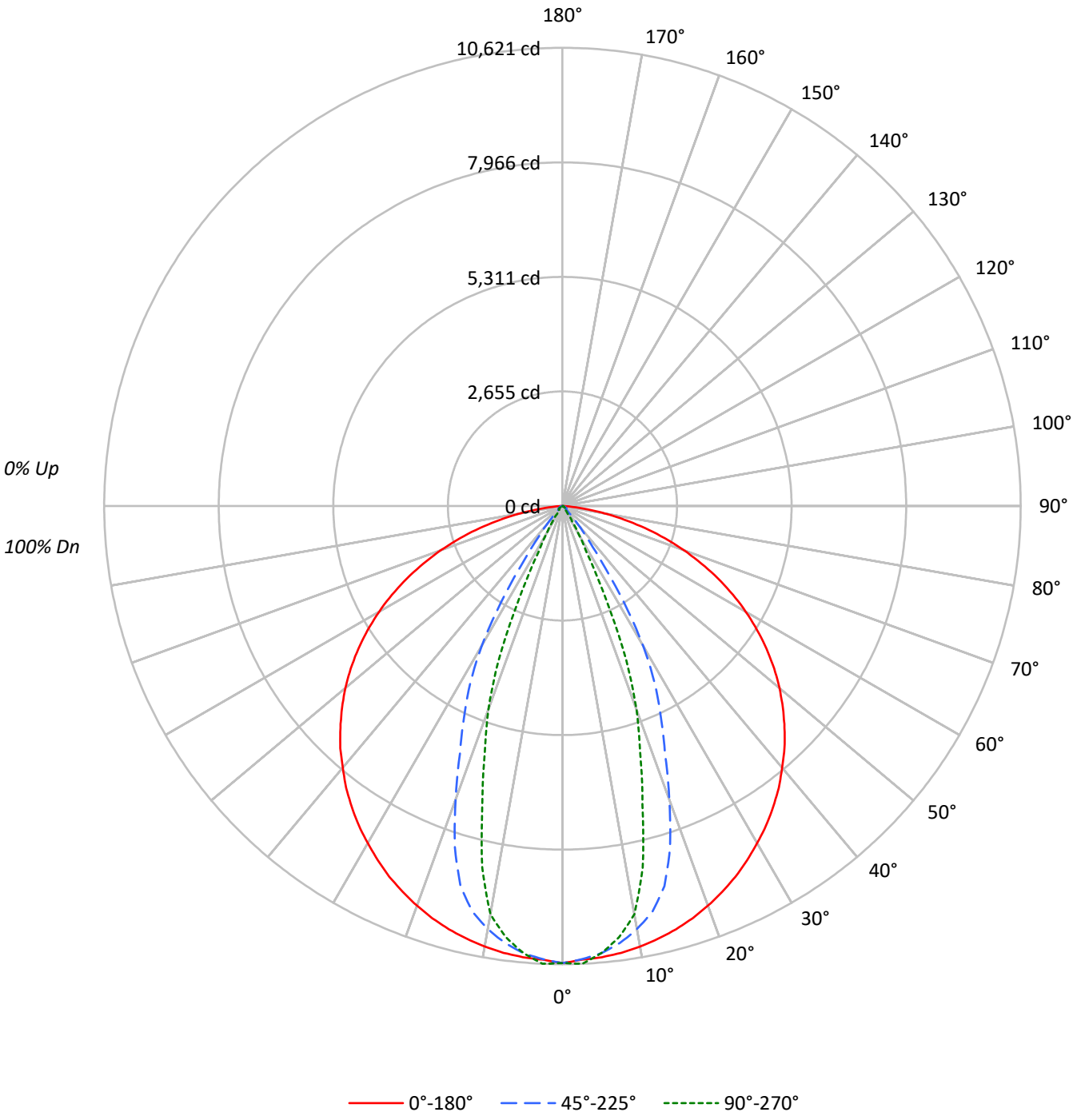
Luminous Intensity Polar Plot



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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	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	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14255	14255	14255
5°	14179	14054	14048
10°	14170	13603	13126
15°	14150	12709	9990
20°	14117	10360	7191
25°	14081	8011	3542
30°	14019	5822	1149
35°	13986	2583	295
40°	13913	1049	199
45°	13851	294	212
50°	13743	209	235
55°	13545	248	100
60°	13210	277	61
65°	12667	176	72
70°	11768	157	89
75°	10295	118	123
80°	7697	144	176
85°	3813	187	233

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.2	8.7
10°-20°	2458.5	21.8
20°-30°	2663.0	23.6
30°-40°	1972.0	17.5
40°-50°	1420.4	12.6
50°-60°	879.5	7.8
60°-70°	540.9	4.8
70°-80°	285.1	2.5
80°-90°	58.4	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°	6104.7	54.2
0°-40°	8076.8	71.7
0°-60°	10376.6	92.1
0°-90°	11261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10595	10595	10595	10595	10595	
5°	10498	10537	10405	10413	10401	998
15°	10158	9922	9124	7759	7172	2868
25°	9485	8688	5396	3394	2386	4370
35°	8515	6003	1572	370	180	5327
45°	7279	3382	155	112	111	5614
55°	5774	696	106	96	43	5154
65°	3979	74	55	35	23	3926
75°	1980	17	23	30	24	2092
85°	247	7	12	18	15	373
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10594.9	10594.9	10594.9	10594.9	*10594.9*
2.5°	*10526.8*	*10593.9*	*10514.7*	*10573.7*	*10620.6*
5°	10498.1	10536.9	10405.4	10412.9	*10400.8*
7.5°	10447.7	10438.6	10217.4	10120.6	*10078.2*
10°	10371.6	10311.6	9956.8	9754.7	*9607.5*
12.5°	10273.3	10139.2	9631.7	8989.1	*8589.9*
15°	10158.4	9922.5	9123.6	7758.8	*7171.6*
17.5°	10021.3	9687.1	8293.0	6502.8	*5978.6*
20°	9859.5	9424.5	7235.6	5532.6	*5022.0*
22.5°	9679.1	9105.0	6208.4	4598.1	*3869.8*
25°	9485.0	8688.2	5396.0	3394.5	*2386.0*
27.5°	9260.7	8152.4	4633.9	1999.4	*1217.7*
30°	9023.3	7507.3	3747.3	1075.6	*739.4*
32.5°	8783.9	6776.0	2651.6	671.8	*419.3*
35°	8514.8	6002.8	1572.5	369.9	*179.9*
37.5°	8234.1	5294.2	929.4	168.3	*115.4*
40°	7921.1	4646.5	597.3	111.9	*113.4*
42.5°	7618.7	4042.7	336.2	110.4	*112.4*
45°	7279.0	3381.9	154.7	111.9	*111.4*
47.5°	6927.7	2697.0	100.3	112.9	*112.9*
50°	6565.3	1928.4	99.8	115.4	*112.4*
52.5°	6182.7	1203.1	103.8	114.9	*92.2*
55°	5774.0	696.5	105.8	95.8	*42.8*
57.5°	5350.6	410.8	106.9	54.9	*24.2*
60°	4909.1	227.3	102.8	40.8	*22.7*
62.5°	4454.0	108.4	81.1	38.3	*22.2*
65°	3978.7	73.6	55.4	35.3	*22.7*
67.5°	3485.3	57.0	43.8	33.3	*23.2*
70°	2991.3	42.3	39.8	33.3	*22.7*
72.5°	2489.3	28.7	33.3	33.8	*22.7*
75°	1980.3	17.1	22.7	29.7	*23.7*
77.5°	1475.8	10.6	17.6	30.7	*28.7*
80°	993.4	9.1	18.6	28.7	*22.7*
82.5°	583.1	8.1	18.1	22.2	*18.1*
85°	247.0	6.6	12.1	18.1	*15.1*
87.5°	46.4	5.5	9.6	14.6	*13.1*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)