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-CL-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 (P23768)
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-CL-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:	10551.0 lumens
Efficiency:	N/A
Efficacy:	137.7 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.63 / 0.78
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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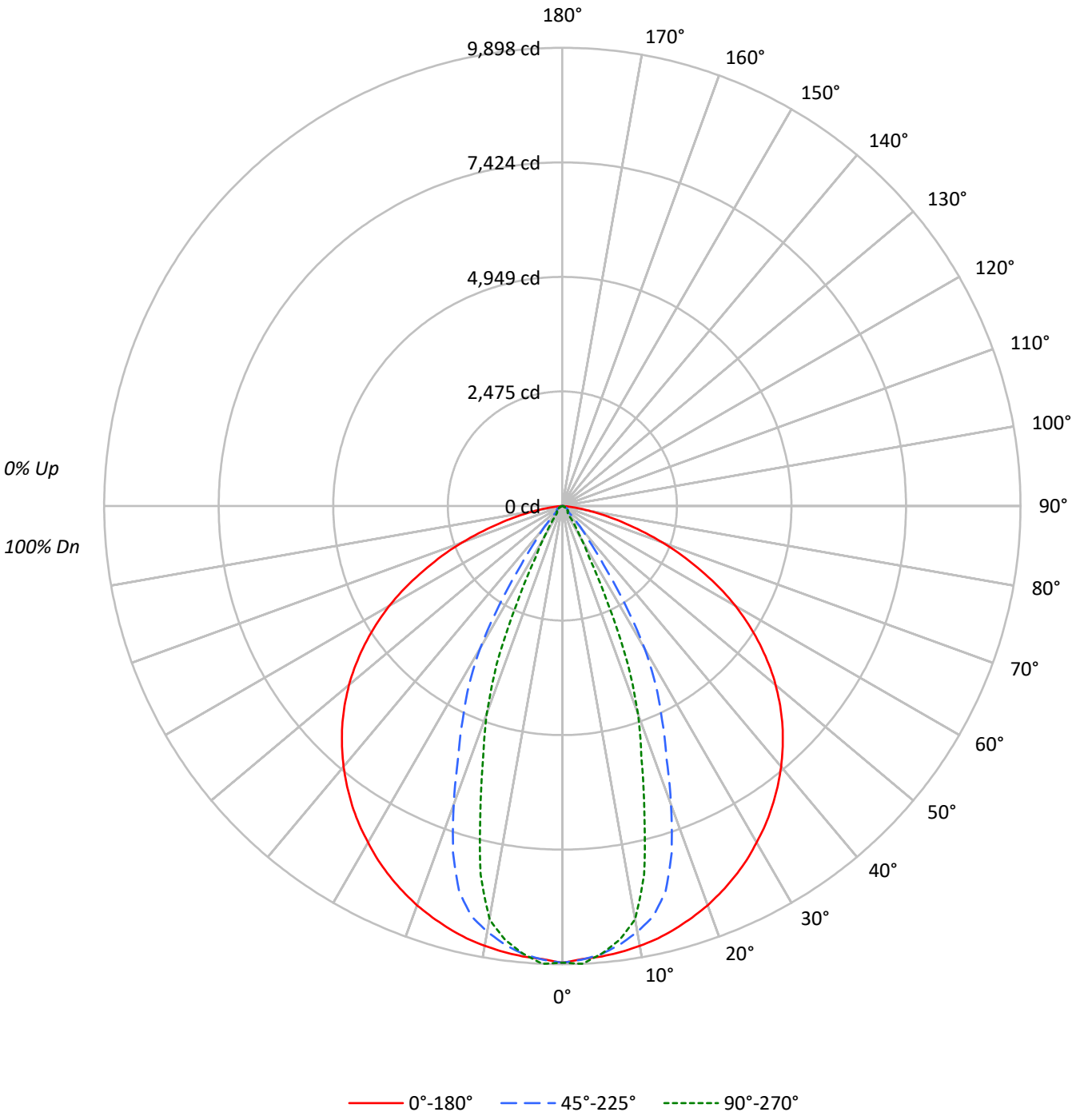
Luminous Intensity Polar Plot



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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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13274	13274	13274
5°	13192	13123	13114
10°	13183	12761	12384
15°	13168	12000	9522
20°	13143	9820	6830
25°	13101	7566	3471
30°	13040	5522	1263
35°	12993	2536	440
40°	12913	1151	303
45°	12798	429	307
50°	12594	312	323
55°	12221	328	246
60°	11614	350	217
65°	10532	267	177
70°	9030	193	163
75°	6902	171	155
80°	4318	160	168
85°	1363	187	225

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.5	8.7
10°-20°	2313.7	21.9
20°-30°	2519.7	23.9
30°-40°	1884.9	17.9
40°-50°	1355.3	12.8
50°-60°	832.3	7.9
60°-70°	478.9	4.5
70°-80°	213.8	2.0
80°-90°	33.9	0.3
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°	5751.9	54.5
0°-40°	7636.8	72.4
0°-60°	9824.4	93.1
0°-90°	10551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9866	9866	9866	9866	9866	
5°	9768	9814	9716	9726	9710	929
15°	9454	9272	8614	7398	6836	2669
25°	8825	8192	5096	3270	2338	4068
35°	7910	5673	1544	454	268	4948
45°	6726	3188	226	167	162	5181
55°	5210	662	140	135	105	4645
65°	3308	73	84	70	56	3275
75°	1328	44	33	34	30	1441
85°	88	9	12	16	15	176
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9865.5	9865.5	9865.5	9865.5	*9865.5*
2.5°	*9796.8*	*9860.9*	*9806.9*	*9855.4*	*9898.3*
5°	9767.5	9813.5	9716.5	9725.6	*9709.5*
7.5°	9717.0	9728.1	9553.0	9485.3	*9452.5*
10°	9649.4	9619.6	9339.9	9178.9	*9064.3*
12.5°	9564.1	9465.6	9074.9	8499.9	*8157.1*
15°	9453.5	9272.3	8614.5	7398.3	*6836.0*
17.5°	9321.8	9070.4	7852.2	6166.0	*5679.4*
20°	9178.9	8847.2	6858.2	5242.7	*4770.2*
22.5°	9010.3	8562.0	5877.8	4360.3	*3711.5*
25°	8825.0	8191.9	5096.3	3269.8	*2337.9*
27.5°	8625.1	7703.8	4372.9	2005.2	*1264.1*
30°	8392.9	7109.6	3554.0	1125.3	*812.8*
32.5°	8166.2	6416.9	2538.8	749.7	*519.5*
35°	7910.2	5673.3	1543.8	453.8	*267.6*
37.5°	7639.1	4997.4	966.3	246.9	*184.8*
40°	7351.9	4356.2	655.3	175.2	*172.7*
42.5°	7045.0	3776.2	410.4	166.6	*172.1*
45°	6725.9	3187.5	225.7	167.1	*161.5*
47.5°	6379.6	2548.4	157.5	158.0	*157.5*
50°	6016.6	1828.0	148.9	156.0	*154.5*
52.5°	5625.4	1134.9	149.4	152.5	*136.8*
55°	5209.9	662.3	139.8	135.3	*105.0*
57.5°	4773.2	413.0	136.8	111.6	*94.4*
60°	4315.8	218.1	130.2	100.5	*80.8*
62.5°	3828.7	107.5	104.5	85.8	*66.1*
65°	3308.2	72.7	83.8	69.7	*55.5*
67.5°	2805.4	65.6	63.1	57.0	*48.5*
70°	2295.5	60.1	49.0	50.0	*41.4*
72.5°	1795.2	54.5	39.4	42.9	*34.8*
75°	1327.7	43.9	32.8	33.8	*29.8*
77.5°	923.8	34.3	25.7	28.8	*27.8*
80°	557.3	21.7	20.7	23.7	*21.7*
82.5°	270.1	14.1	16.2	18.7	*17.2*
85°	88.3	8.6	12.1	15.6	*14.6*
87.5°	11.1	5.0	10.1	13.6	*12.6*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)