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-LD5-36SE-W-UNV-L835-ED3-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 (P23760)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-36SE-W-UNV-L835-ED3-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:	33004.0 lumens
Efficiency:	N/A
Efficacy:	142.3 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.29 / 1.42
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	232
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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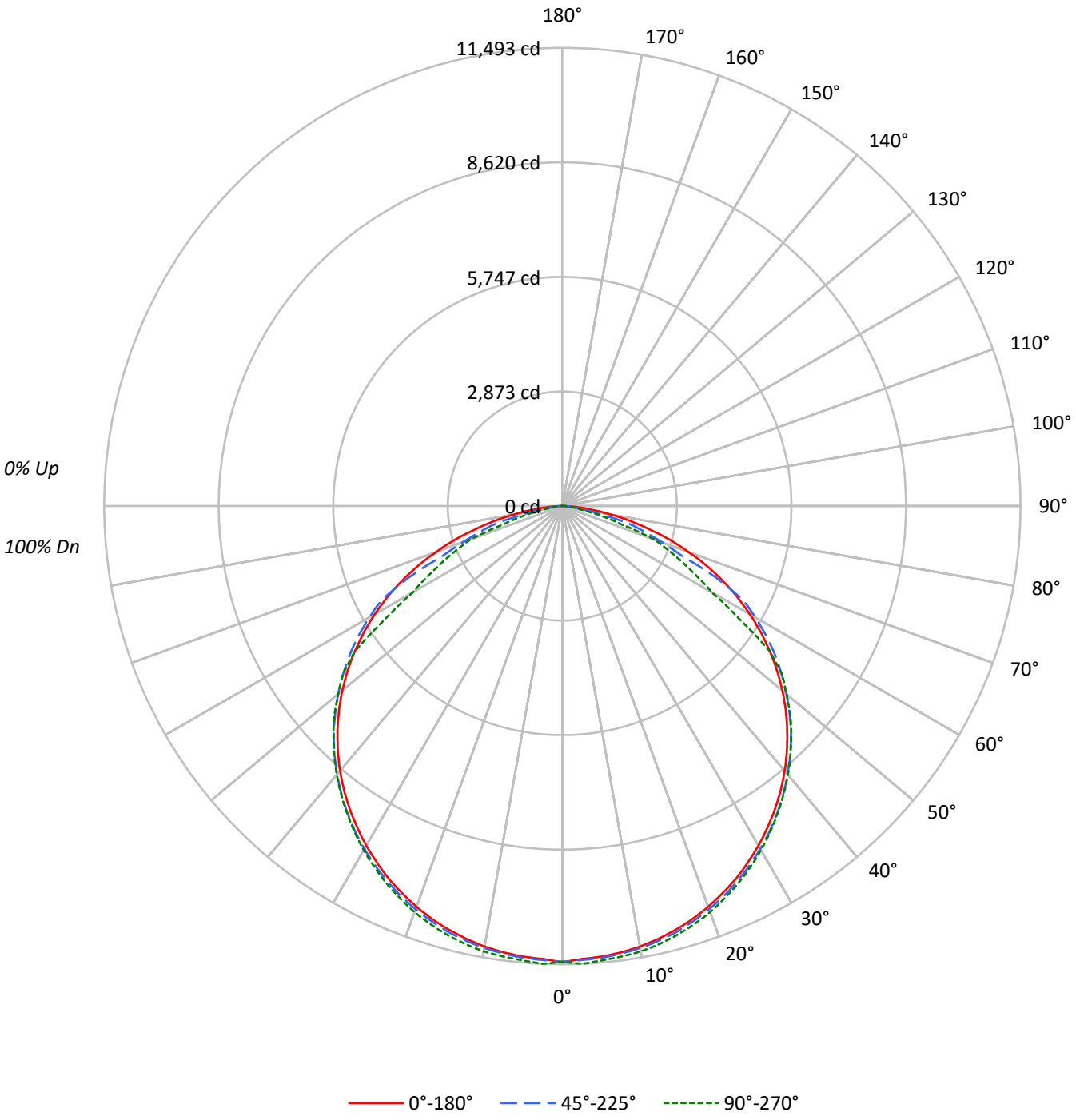
Luminous Intensity Polar Plot



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15382	15382	15382
5°	15319	15361	15448
10°	15327	15381	15498
15°	15323	15405	15512
20°	15315	15413	15521
25°	15310	15420	15505
30°	15283	15432	15489
35°	15264	15439	15460
40°	15236	15438	15462
45°	15179	15432	15450
50°	15088	15366	15363
55°	14912	15285	14906
60°	14635	15059	11662
65°	14147	13553	10507
70°	13253	10428	9684
75°	11735	9092	6035
80°	9665	5353	2697
85°	6370	3279	3534

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1084.9	3.3
10°-20°	3129.9	9.5
20°-30°	4798.6	14.5
30°-40°	5884.9	17.8
40°-50°	6248.9	18.9
50°-60°	5707.6	17.3
60°-70°	3974.7	12.0
70°-80°	1853.8	5.6
80°-90°	320.7	1.0
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°	9013.4	27.3
0°-40°	14898.3	45.1
0°-60°	26854.7	81.4
0°-90°	33004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11432	11432	11432	11432	11432	
5°	11342	11421	11373	11428	11438	###
15°	11000	11077	11060	11127	11136	3106
25°	10312	10403	10386	10463	10444	4752
35°	9293	9400	9400	9463	9412	5815
45°	7977	8098	8110	8162	8120	6152
55°	6357	6484	6516	6527	6354	5677
65°	4444	4581	4257	3385	3300	4384
75°	2257	2400	1749	1212	1161	2413
85°	413	271	212	228	229	533
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11432.3	11432.3	11432.3	11432.3	*11432.3*
2.5°	*11372.0*	*11444.6*	*11396.6*	*11448.7*	*11492.6*
5°	11341.8	11421.3	11373.3	11428.2	*11437.8*
7.5°	11292.5	11367.9	11324.0	11384.3	*11399.4*
10°	11218.5	11292.5	11258.2	11329.5	*11343.2*
12.5°	11118.4	11193.8	11167.8	11245.9	*11255.5*
15°	11000.5	11077.3	11059.5	11126.6	*11136.2*
17.5°	10862.1	10941.6	10921.0	10992.3	*10999.2*
20°	10696.3	10782.6	10764.8	10848.4	*10840.2*
22.5°	10509.9	10601.7	10588.0	10671.6	*10646.9*
25°	10312.5	10403.0	10386.5	10463.3	*10444.1*
27.5°	10080.9	10180.9	10165.8	10239.9	*10209.7*
30°	9836.9	9938.3	9932.8	10000.0	*9969.8*
32.5°	9573.7	9682.0	9676.5	9742.3	*9695.7*
35°	9292.8	9399.7	9399.7	9462.7	*9412.0*
37.5°	8995.3	9103.6	9105.0	9165.3	*9117.3*
40°	8674.6	8782.9	8789.7	8847.3	*8803.4*
42.5°	8337.4	8455.3	8460.8	8512.9	*8471.8*
45°	7977.0	8097.6	8109.9	8162.0	*8119.5*
47.5°	7600.1	7722.0	7733.0	7789.2	*7759.0*
50°	7208.1	7325.9	7341.0	7387.6	*7339.6*
52.5°	6794.1	6914.7	6935.3	6964.1	*6942.2*
55°	6356.9	6484.4	6515.9	6526.9	*6354.2*
57.5°	5904.6	6034.8	6065.0	5812.8	*5257.7*
60°	5438.6	5567.4	5596.2	4728.6	*4333.9*
62.5°	4953.4	5079.5	5111.0	3918.6	*3792.5*
65°	4443.5	4580.6	4257.1	3385.4	*3300.4*
67.5°	3920.0	4061.1	3219.6	2901.6	*2850.9*
70°	3369.0	3511.5	2650.8	2474.0	*2461.6*
72.5°	2839.9	2945.4	2175.2	1875.0	*1578.9*
75°	2257.4	2399.9	1748.9	1211.6	*1160.9*
77.5°	1750.3	1513.2	1055.4	888.2	*700.4*
80°	1247.3	1011.5	690.8	368.7	*348.1*
82.5°	790.8	660.6	271.4	278.2	*290.6*
85°	412.6	271.4	212.4	227.5	*228.9*
87.5°	132.9	116.5	127.5	126.1	*124.7*
90°	0.0	0.0	0.0	0.0	*0.0*

(END OF REPORT)