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-WG-UNV-L740-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 (P33336)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-36SE-W-WG-UNV-L740-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:	32713.0 lumens
Efficiency:	N/A
Efficacy:	141.0 lumens/watt
Spacing Criteria (0/90/45):	1.29 / 1.31 / 1.41
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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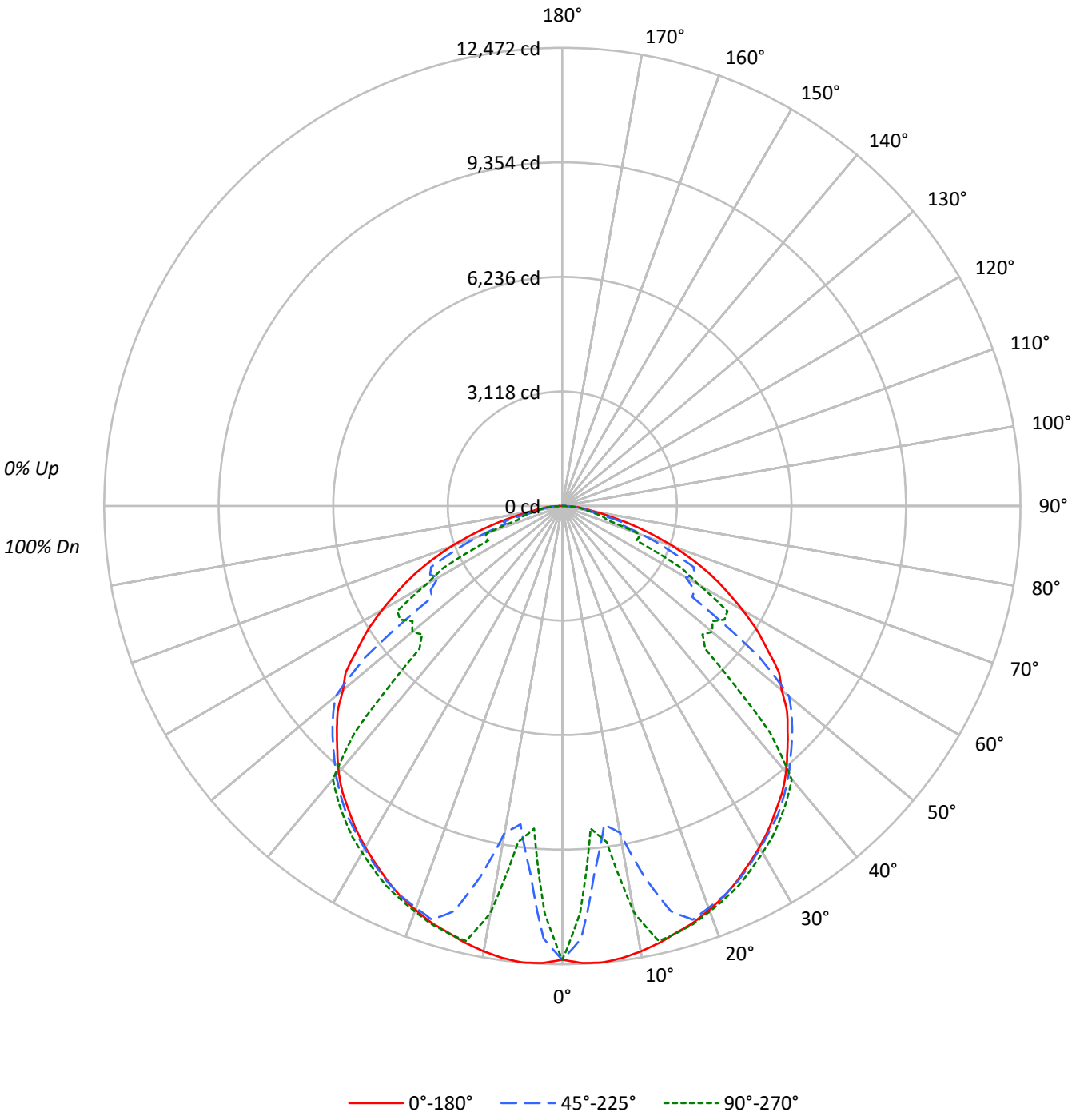
Luminous Intensity Polar Plot



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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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16614	16614	16614
5°	16845	13533	11901
10°	16816	12342	15349
15°	16742	15907	16756
20°	16742	16666	16814
25°	16712	16749	16903
30°	16663	16718	16934
35°	16637	16821	17018
40°	16639	16821	17062
45°	16509	16832	10460
50°	16322	16866	11148
55°	15978	10141	12635
60°	15241	10454	11570
65°	14281	12551	7079
70°	12610	9509	8678
75°	10048	8643	6018
80°	6922	6247	5171
85°	6634	5768	5471

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.4	3.0
10°-20°	3093.4	9.5
20°-30°	5089.4	15.6
30°-40°	6399.2	19.6
40°-50°	6276.0	19.2
50°-60°	5200.0	15.9
60°-70°	3667.7	11.2
70°-80°	1600.2	4.9
80°-90°	399.8	1.2
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°	9170.2	28.0
0°-40°	15569.4	47.6
0°-60°	27045.4	82.7
0°-90°	32713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12348	12348	12348	12348	12348	
5°	12472	11608	10020	9085	8812	###
15°	12019	8347	11419	12066	12029	3399
25°	11257	10300	11282	11357	11385	5189
35°	10129	10123	10241	10309	10361	6346
45°	8676	8703	8846	7834	5497	6697
55°	6811	7034	4323	4915	5386	6094
65°	4486	4750	3942	3033	2224	4410
75°	1933	1894	1663	1087	1158	2073
85°	430	382	374	357	354	446
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*12348.1*	12348.1	12348.1	12348.1	12348.1
2.5°	*12450.0*	12191.6	11781.1	11264.3	11081.2
5°	*12472.1*	*11608.4*	*10019.6*	*9085.0*	*8811.8*
7.5°	*12408.6*	10549.7	8735.1	8931.4	9220.8
10°	*12308.2*	9619.5	9033.3	10628.0	11234.8
12.5°	*12179.8*	8792.6	10348.9	12005.5	12126.6
15°	*12018.8*	8346.7	11419.4	12066.1	12029.2
17.5°	*11883.0*	8608.1	11803.3	11945.0	11918.4
20°	*11692.5*	9129.3	11639.4	11753.1	11742.7
22.5°	*11500.6*	9746.5	11484.3	11565.5	11565.5
25°	*11256.9*	10300.2	11282.1	11357.4	11385.4
27.5°	*10989.7*	10619.1	11029.6	11091.6	11141.8
30°	*10725.4*	10664.9	10760.8	10840.6	10899.6
32.5°	*10446.3*	10422.7	10498.0	10582.2	10657.5
35°	*10128.9*	10123.0	10241.1	10309.0	10360.7
37.5°	*9830.6*	9810.0	9919.2	10013.7	10053.6
40°	*9473.3*	9473.3	9576.7	9672.6	9714.0
42.5°	*9065.8*	9123.4	9203.1	9302.0	8377.7
45°	*8676.0*	8702.6	8845.8	7834.4	5497.1
47.5°	*8301.0*	8334.9	8470.8	5036.4	5173.7
50°	*7797.5*	7951.0	8057.3	5021.6	5325.8
52.5°	*7429.8*	7496.3	6763.9	4971.4	5142.7
55°	*6811.2*	7034.1	4323.2	4915.3	5386.3
57.5°	*6282.6*	6445.0	4250.9	5036.4	5328.7
60°	*5663.9*	5912.0	3884.7	4859.2	4299.6
62.5°	*5070.4*	5306.6	4056.0	3824.2	3641.1
65°	*4485.7*	4749.9	3942.3	3032.8	2223.6
67.5°	*3844.8*	3598.3	3145.0	2136.5	2248.7
70°	*3205.5*	2513.0	2417.1	2389.0	2205.9
72.5°	*2548.5*	1833.8	1605.0	1792.5	1283.1
75°	*1932.8*	1894.4	1662.6	1086.7	1157.6
77.5°	*1340.7*	1367.3	890.3	1060.1	880.0
80°	*893.3*	773.7	806.2	676.2	667.4
82.5°	*618.7*	631.9	530.1	513.8	521.2
85°	*429.7*	382.4	373.6	357.3	354.4
87.5°	*143.2*	166.8	155.0	140.3	149.1
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)