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-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 (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-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:	31254.0 lumens
Efficiency:	N/A
Efficacy:	134.7 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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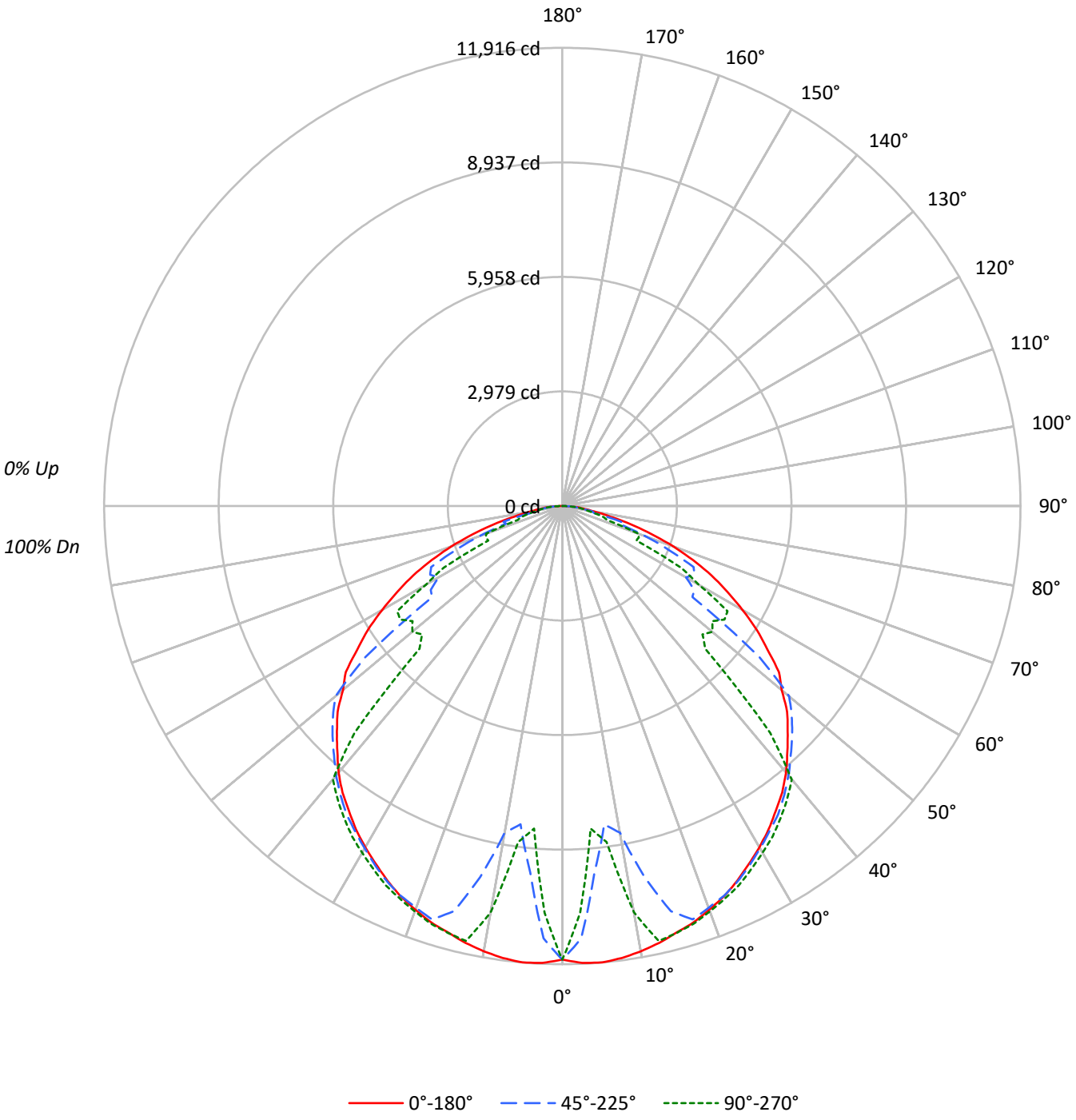
Luminous Intensity Polar Plot



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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°	15873	15873	15873
5°	16094	12929	11371
10°	16066	11791	14665
15°	15995	15197	16009
20°	15995	15922	16064
25°	15967	16002	16149
30°	15920	15973	16179
35°	15895	16071	16259
40°	15897	16070	16301
45°	15773	16081	9993
50°	15594	16114	10651
55°	15265	9689	12072
60°	14562	9988	11054
65°	13644	11991	6764
70°	12048	9085	8291
75°	9600	8257	5750
80°	6613	5968	4940
85°	6337	5510	5227

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.4	3.0
10°-20°	2955.5	9.5
20°-30°	4862.4	15.6
30°-40°	6113.8	19.6
40°-50°	5996.1	19.2
50°-60°	4968.1	15.9
60°-70°	3504.1	11.2
70°-80°	1528.8	4.9
80°-90°	382.0	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°	8761.2	28.0
0°-40°	14875.0	47.6
0°-60°	25839.2	82.7
0°-90°	31254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11797	11797	11797	11797	11797	
5°	11916	11091	9573	8680	8419	###
15°	11483	7974	10910	11528	11493	3247
25°	10755	9841	10779	10851	10878	4957
35°	9677	9672	9784	9849	9899	6063
45°	8289	8314	8451	7485	5252	6398
55°	6507	6720	4130	4696	5146	5822
65°	4286	4538	3766	2898	2124	4214
75°	1847	1810	1588	1038	1106	1980
85°	410	365	357	341	339	426
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*11797.4*	11797.4	11797.4	11797.4	11797.4
2.5°	*11894.7*	11647.8	11255.7	10761.9	10587.0
5°	*11915.9*	*11090.6*	*9572.8*	*8679.8*	*8418.8*
7.5°	*11855.2*	10079.2	8345.5	8533.1	8809.6
10°	*11759.3*	9190.5	8630.4	10153.9	10733.7
12.5°	*11636.6*	8400.5	9887.3	11470.1	11585.8
15°	*11482.8*	7974.5	10910.1	11527.9	11492.7
17.5°	*11353.0*	8224.2	11276.8	11412.3	11386.9
20°	*11171.0*	8722.1	11120.3	11228.9	11219.0
22.5°	*10987.6*	9311.8	10972.1	11049.7	11049.7
25°	*10754.9*	9840.8	10778.9	10850.8	10877.6
27.5°	*10499.6*	10145.5	10537.6	10596.9	10644.9
30°	*10247.1*	10189.2	10280.9	10357.1	10413.5
32.5°	*9980.4*	9957.9	10029.8	10110.2	10182.2
35°	*9677.1*	9671.5	9784.4	9849.2	9898.6
37.5°	*9392.2*	9372.4	9476.8	9567.1	9605.2
40°	*9050.8*	9050.8	9149.6	9241.2	9280.7
42.5°	*8661.5*	8716.5	8792.7	8887.2	8004.1
45°	*8289.1*	8314.4	8451.3	7485.0	5251.9
47.5°	*7930.7*	7963.2	8093.0	4811.8	4943.0
50°	*7449.7*	7596.4	7698.0	4797.7	5088.3
52.5°	*7098.5*	7161.9	6462.2	4749.7	4913.3
55°	*6507.4*	6720.4	4130.4	4696.1	5146.1
57.5°	*6002.4*	6157.5	4061.3	4811.8	5091.1
60°	*5411.3*	5648.3	3711.5	4642.5	4107.8
62.5°	*4844.2*	5069.9	3875.1	3653.6	3478.7
65°	*4285.6*	4538.1	3766.5	2897.5	2124.5
67.5°	*3673.4*	3437.8	3004.7	2041.2	2148.4
70°	*3062.5*	2400.9	2309.3	2282.5	2107.5
72.5°	*2434.8*	1752.0	1533.4	1712.5	1225.9
75°	*1846.6*	1809.9	1588.4	1038.2	1106.0
77.5°	*1280.9*	1306.3	850.6	1012.9	840.8
80°	*853.5*	739.2	770.2	646.1	637.6
82.5°	*591.1*	603.8	506.4	490.9	498.0
85°	*410.5*	365.4	356.9	341.4	338.6
87.5°	*136.8*	159.4	148.1	134.0	142.5
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)