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: **8ILED-LD5-18-N-TWBWG-UNV-L840-CD2-U**

Issue Date: 3/3/2020

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 (P34186)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	8ILED-LD5-18-N-TWBWG-UNV-L840-CD2-U
Description:	Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUION
Light Source:	(1) 4000 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15521.0 lumens
Efficiency:	N/A
Efficacy:	118.2 lumens/watt
Spacing Criteria (0/90/45):	1.25 / 0.6 / 0.75
Luminous Opening:	Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type:	Direct
Input Watts (W):	131.3
Input Voltage (V):	
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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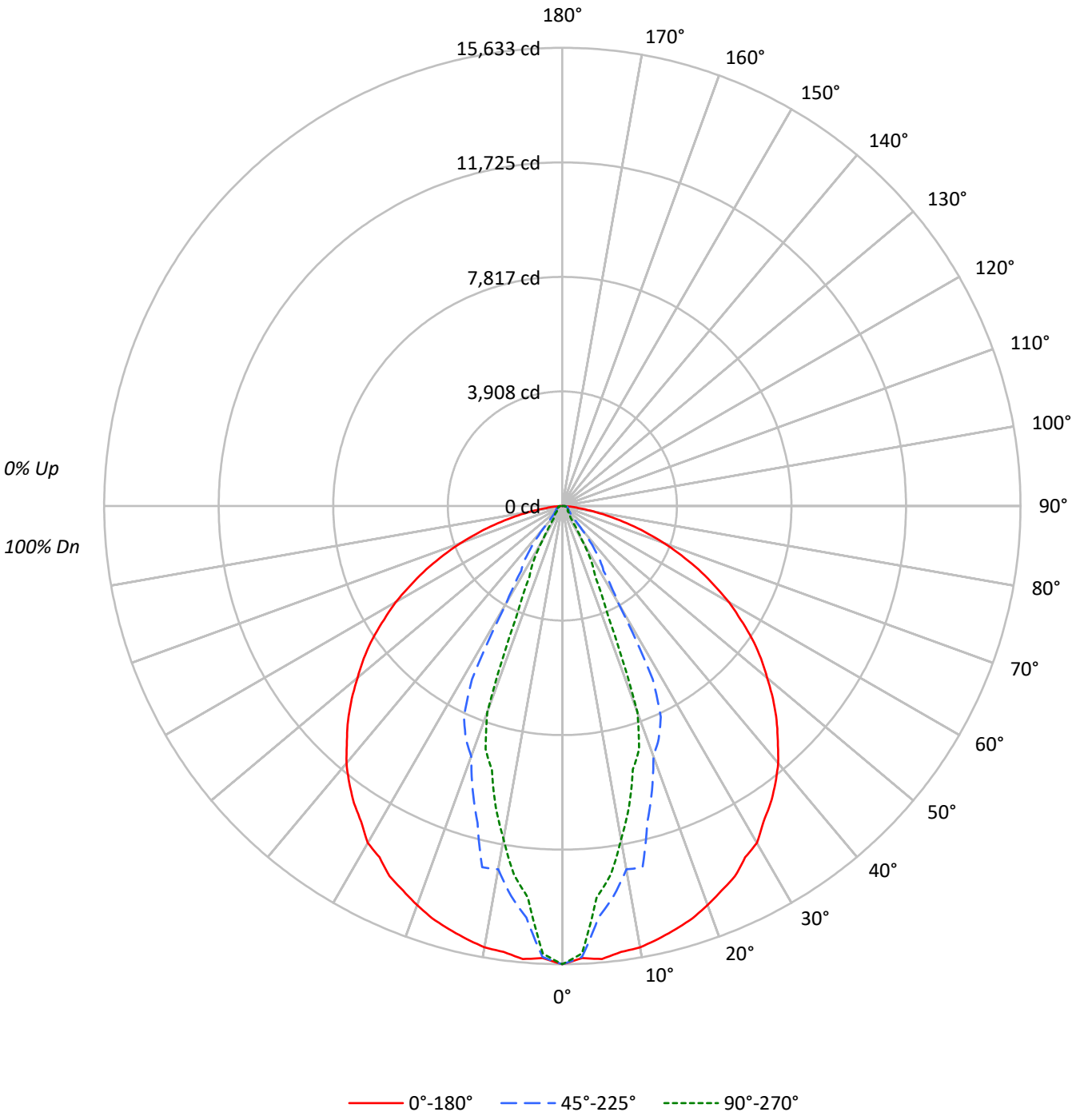
Luminous Intensity Polar Plot



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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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22947	22947	22947
5°	22835	20620	19585
10°	22738	18484	16901
15°	22638	16625	13734
20°	22528	13763	11251
25°	22447	12373	4093
30°	22339	6167	2134
35°	22003	3733	812
40°	21730	1868	708
45°	21199	810	524
50°	20526	686	478
55°	19875	574	500
60°	18870	597	488
65°	17339	648	499
70°	15238	678	517
75°	12316	750	569
80°	8474	890	630
85°	4769	1069	789

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1335.4	8.6
10°-20°	3237.3	20.9
20°-30°	3526.6	22.7
30°-40°	2712.9	17.5
40°-50°	2004.5	12.9
50°-60°	1261.2	8.1
60°-70°	825.9	5.3
70°-80°	462.4	3.0
80°-90°	154.8	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°	8099.3	52.2
0°-40°	10812.2	69.7
0°-60°	14077.9	90.7
0°-90°	15521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15633	15633	15633	15633	15633	
5°	15515	15394	14100	13268	13419	###
15°	14948	12996	11193	9716	9302	4221
25°	13941	10417	7946	3539	2656	6409
35°	12387	7677	2209	704	488	7746
45°	10340	4089	424	357	280	7963
55°	7905	1048	252	264	226	7043
65°	5126	259	221	198	177	5056
75°	2273	195	175	157	141	2439
85°	324	123	126	121	105	413
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*15633.3*	*15633.3*	*15633.3*	*15633.3*	*15633.3*
2.5°	*15440.7*	15445.8	15407.3	15330.2	15281.4
5°	*15515.1*	15394.4	14100.0	13267.9	13419.4
7.5°	*15345.6*	14721.5	13419.4	12797.9	12677.2
10°	*15289.1*	13689.1	12589.8	12379.2	11557.4
12.5°	*15127.3*	13062.4	12628.4	11300.5	10512.1
15°	*14947.5*	12995.6	11192.7	9715.9	9302.4
17.5°	*14752.4*	12410.1	10170.5	8904.3	8706.6
20°	*14487.8*	12035.1	9086.7	8185.2	7489.2
22.5°	*14202.7*	11855.3	8596.1	5334.4	4135.0
25°	*13940.8*	10417.1	7946.3	3539.1	2655.6
27.5°	*13509.3*	10301.5	6675.0	2591.4	2190.8
30°	*13275.6*	9233.1	3819.1	1949.3	1338.1
32.5°	*12769.6*	8395.8	2614.5	1184.0	798.7
35°	*12386.9*	7676.7	2208.7	703.7	488.0
37.5°	*11937.5*	7201.5	1651.4	482.8	423.8
40°	*11459.8*	6641.6	1045.3	431.5	403.2
42.5°	*10879.3*	5981.6	619.0	405.8	346.7
45°	*10340.0*	4088.7	423.8	357.0	279.9
47.5°	*9744.2*	2789.2	362.1	303.1	241.4
50°	*9122.6*	1823.5	331.3	269.7	236.3
52.5°	*8539.6*	1494.8	287.7	269.7	236.3
55°	*7905.2*	1047.9	251.7	264.5	226.0
57.5°	*7209.2*	652.3	236.3	256.8	218.3
60°	*6567.2*	385.2	233.7	249.1	197.8
62.5°	*5817.2*	292.8	228.6	220.9	187.5
65°	*5126.3*	259.4	220.9	197.8	177.2
67.5°	*4384.1*	233.7	205.5	190.1	172.1
70°	*3672.7*	210.6	195.2	177.2	156.7
72.5°	*2958.7*	202.9	184.9	166.9	149.0
75°	*2273.0*	195.2	174.6	156.7	141.3
77.5°	*1654.0*	182.3	164.4	151.5	133.6
80°	*1073.6*	166.9	156.7	141.3	120.7
82.5°	*598.4*	151.5	143.8	131.0	115.6
85°	*323.6*	123.3	125.8	120.7	105.3
87.5°	*59.1*	87.3	107.9	105.3	92.5
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)