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-TWB-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

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Test Information

Test Method:	LM-79-08
Report Number:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34185)
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-TWB-UNV-L850-CD2-U
Description:	Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUION
Light Source:	(1) 5000 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17903.9 lumens
Efficiency:	N/A
Efficacy:	136.4 lumens/watt
Spacing Criteria (0/90/45):	1.27 / 0.59 / 0.77
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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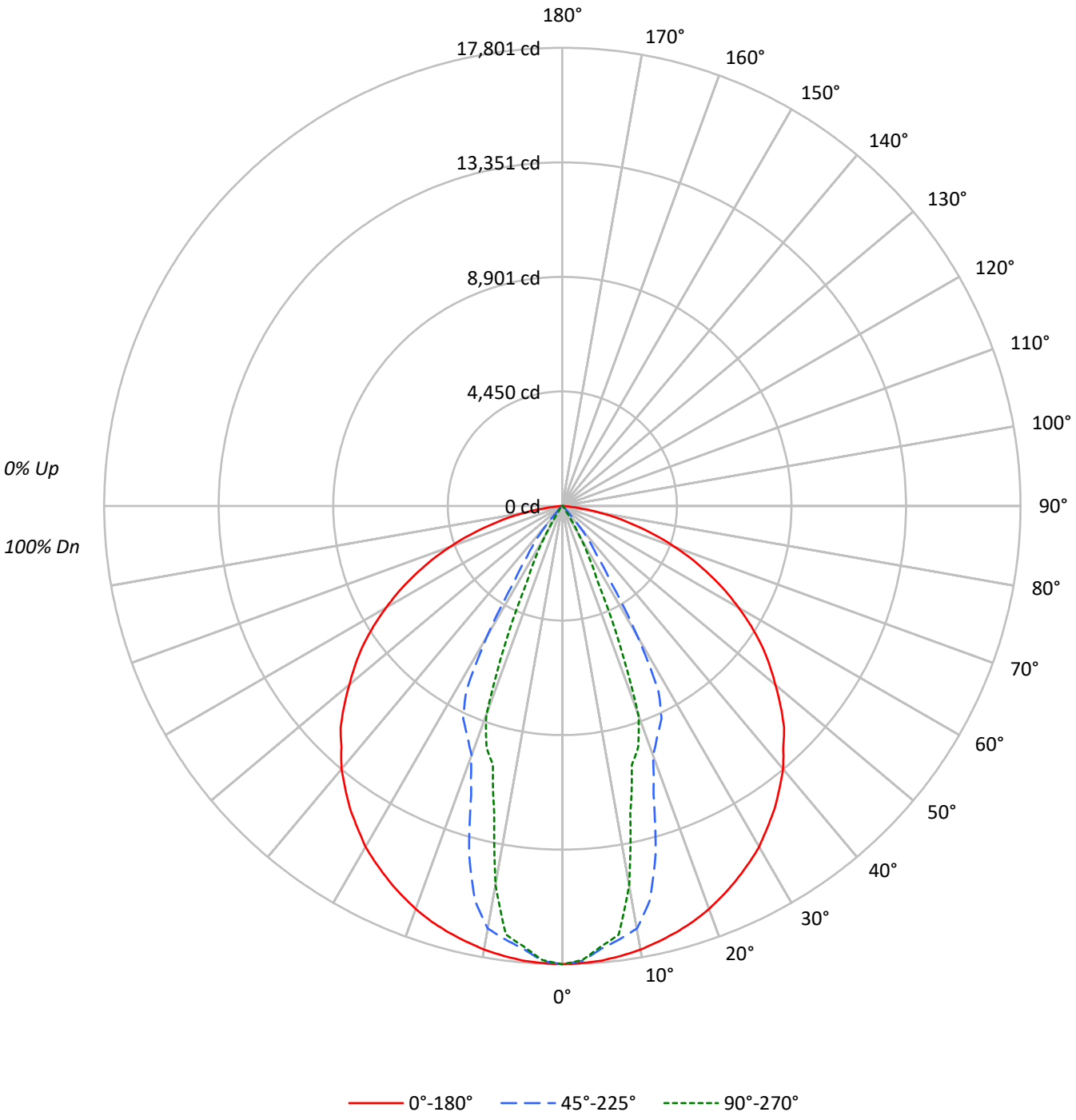
Luminous Intensity Polar Plot



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	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	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
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	48	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26128	26128	26128
5°	26088	25254	25073
10°	26023	24474	21849
15°	25959	20782	15385
20°	25907	15613	13008
25°	25789	14197	5051
30°	25731	9403	2153
35°	25525	4005	476
40°	25304	1767	339
45°	24981	423	157
50°	24308	261	85
55°	23782	166	87
60°	22729	150	90
65°	21327	156	95
70°	19304	165	102
75°	16028	192	113
80°	11608	223	102
85°	3921	238	126

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1635.2	9.1
10°-20°	3902.8	21.8
20°-30°	4267.3	23.8
30°-40°	3088.2	17.2
40°-50°	2304.7	12.9
50°-60°	1345.7	7.5
60°-70°	836.6	4.7
70°-80°	436.3	2.4
80°-90°	87.2	0.5
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°	9805.2	54.8
0°-40°	12893.4	72.0
0°-60°	16543.8	92.4
0°-90°	17903.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17903.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17801	17801	17801	17801	17801	
5°	17725	17661	17269	17216	17179	###
15°	17140	16538	13991	10941	10420	4840
25°	16017	13596	9118	4754	3277	7388
35°	14370	8765	2370	513	286	8984
45°	12185	5728	221	151	84	9356
55°	9459	1109	73	84	39	8422
65°	6305	92	53	50	34	6234
75°	2958	56	45	36	28	3170
85°	266	36	28	25	17	504
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*17800.9*	*17800.9*	*17800.9*	*17800.9*	*17800.9*
2.5°	*17772.9*	17795.3	17688.9	17688.9	17658.1
5°	*17725.3*	17660.9	17268.7	17215.5	17179.1
7.5°	*17621.7*	17369.6	16985.8	16915.8	16795.3
10°	*17498.4*	17055.8	16669.3	15672.1	14941.0
12.5°	*17324.7*	16795.3	15700.1	13229.6	12215.6
15°	*17139.9*	16537.6	13991.4	10941.1	10420.1
17.5°	*16921.4*	16195.9	11770.2	10033.5	9809.4
20°	*16660.9*	15641.3	10308.0	9408.9	8658.2
22.5°	*16355.6*	14781.4	9647.0	7820.6	5795.5
25°	*16016.6*	13596.5	9117.6	4753.5	3277.3
27.5°	*15660.9*	12195.9	8069.9	2887.9	2238.1
30°	*15291.2*	10756.2	5823.5	2070.0	1350.1
32.5°	*14817.8*	9579.7	3532.2	1165.3	602.2
35°	*14369.6*	8764.6	2369.7	512.6	285.7
37.5°	*13851.4*	8201.6	1731.1	271.7	201.7
40°	*13344.4*	7652.6	988.8	204.5	193.3
42.5°	*12705.7*	6969.1	417.4	193.3	137.3
45°	*12184.7*	5728.2	221.3	151.3	84.0
47.5°	*11495.7*	3921.5	148.5	117.6	53.2
50°	*10803.8*	2422.9	126.0	92.4	42.0
52.5°	*10145.6*	1605.0	92.4	86.8	39.2
55°	*9459.3*	1109.2	72.8	84.0	39.2
57.5°	*8697.4*	546.2	61.6	81.2	36.4
60°	*7910.3*	212.9	58.8	78.4	36.4
62.5°	*7131.6*	117.6	56.0	64.4	33.6
65°	*6305.3*	92.4	53.2	50.4	33.6
67.5°	*5487.3*	75.6	50.4	47.6	33.6
70°	*4652.6*	67.2	47.6	42.0	30.8
72.5°	*3801.1*	61.6	44.8	42.0	28.0
75°	*2958.0*	56.0	44.8	36.4	28.0
77.5°	*2212.9*	53.2	42.0	36.4	22.4
80°	*1470.6*	47.6	39.2	30.8	19.6
82.5°	*812.3*	44.8	33.6	28.0	19.6
85°	*266.1*	36.4	28.0	25.2	16.8
87.5°	*42.0*	25.2	22.4	22.4	14.0
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)