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-L835-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-L835-CD2-U
Description:	Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUION
Light Source:	(1) 3500 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16227.0 lumens
Efficiency:	N/A
Efficacy:	123.6 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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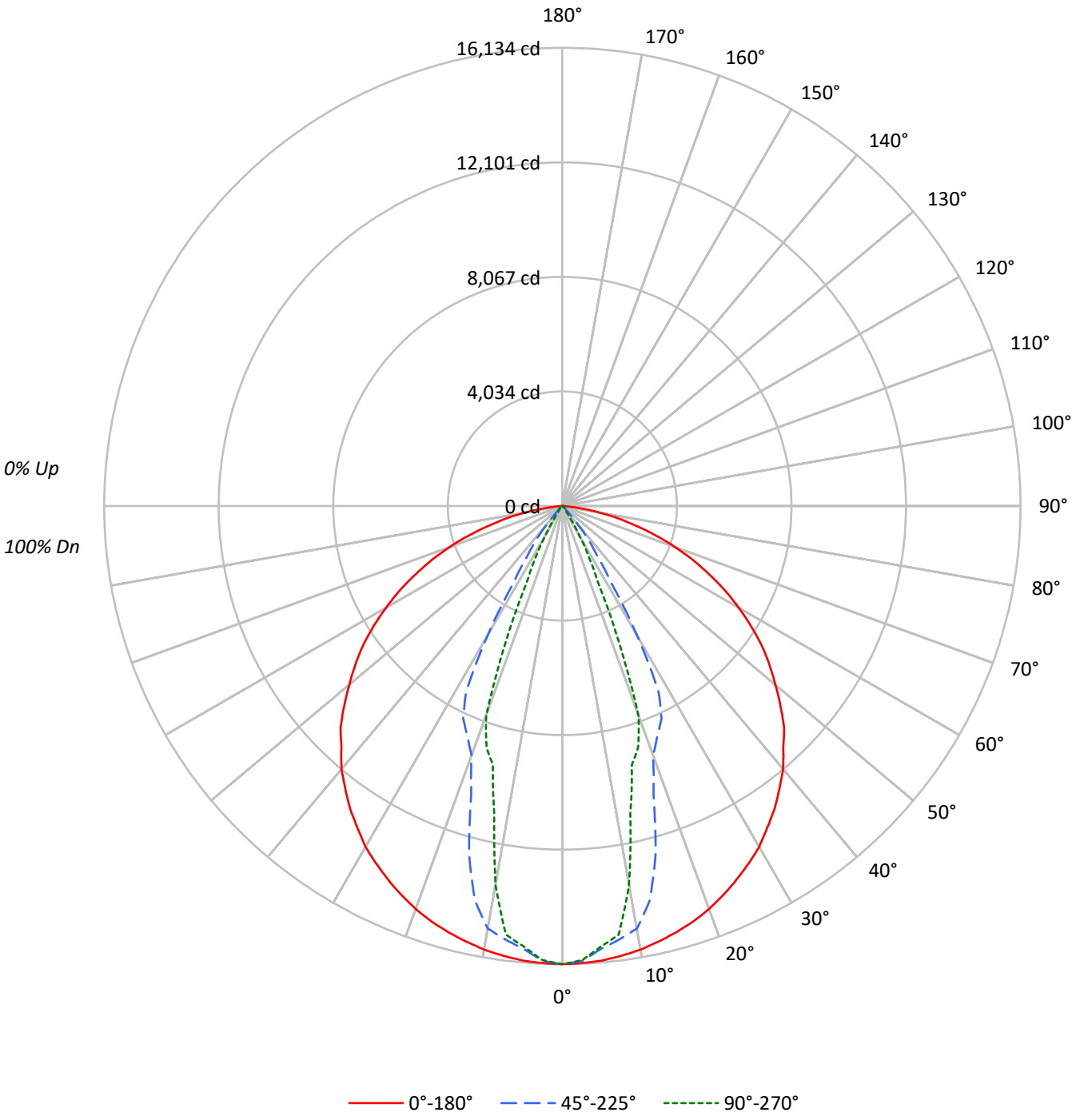
Luminous Intensity Polar Plot



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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°	23681	23681	23681
5°	23645	22889	22724
10°	23586	22181	19802
15°	23527	18836	13944
20°	23480	14150	11789
25°	23374	12867	4578
30°	23321	8523	1951
35°	23134	3630	431
40°	22934	1602	308
45°	22641	383	143
50°	22032	237	77
55°	21555	150	79
60°	20601	136	81
65°	19330	141	86
70°	17496	150	92
75°	14526	174	102
80°	10520	202	93
85°	3554	216	114

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1482.0	9.1
10°-20°	3537.2	21.8
20°-30°	3867.6	23.8
30°-40°	2798.9	17.2
40°-50°	2088.8	12.9
50°-60°	1219.7	7.5
60°-70°	758.3	4.7
70°-80°	395.5	2.4
80°-90°	79.0	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°	8886.8	54.8
0°-40°	11685.7	72.0
0°-60°	14994.3	92.4
0°-90°	16227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16134	16134	16134	16134	16134	
5°	16065	16007	15651	15603	15570	###
15°	15534	14989	12681	9916	9444	4387
25°	14516	12323	8264	4308	2970	6696
35°	13024	7944	2148	465	259	8143
45°	11043	5192	201	137	76	8480
55°	8573	1005	66	76	36	7633
65°	5715	84	48	46	30	5650
75°	2681	51	41	33	25	2873
85°	241	33	25	23	15	457
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*16133.6*	*16133.6*	*16133.6*	*16133.6*	*16133.6*
2.5°	*16108.2*	16128.5	16032.0	16032.0	16004.1
5°	*16065.0*	16006.6	15651.2	15603.0	15570.0
7.5°	*15971.1*	15742.6	15394.8	15331.3	15222.2
10°	*15859.4*	15458.3	15107.9	14204.2	13541.5
12.5°	*15702.0*	15222.2	14229.5	11990.4	11071.4
15°	*15534.4*	14988.6	12680.9	9916.3	9444.1
17.5°	*15336.4*	14678.9	10667.7	9093.7	8890.6
20°	*15100.3*	14176.2	9342.5	8527.6	7847.2
22.5°	*14823.6*	13396.8	8743.4	7088.1	5252.6
25°	*14516.4*	12323.0	8263.5	4308.2	2970.3
27.5°	*14194.0*	11053.6	7314.1	2617.4	2028.4
30°	*13858.9*	9748.7	5278.0	1876.1	1223.7
32.5°	*13429.8*	8682.4	3201.3	1056.1	545.8
35°	*13023.6*	7943.7	2147.8	464.6	258.9
37.5°	*12554.0*	7433.4	1568.9	246.3	182.8
40°	*12094.5*	6935.8	896.2	185.3	175.2
42.5°	*11515.6*	6316.3	378.3	175.2	124.4
45°	*11043.4*	5191.7	200.6	137.1	76.2
47.5°	*10418.9*	3554.2	134.6	106.6	48.2
50°	*9791.9*	2196.0	114.2	83.8	38.1
52.5°	*9195.3*	1454.7	83.8	78.7	35.5
55°	*8573.3*	1005.3	66.0	76.2	35.5
57.5°	*7882.7*	495.1	55.9	73.6	33.0
60°	*7169.4*	192.9	53.3	71.1	33.0
62.5°	*6463.6*	106.6	50.8	58.4	30.5
65°	*5714.7*	83.8	48.2	45.7	30.5
67.5°	*4973.4*	68.5	45.7	43.2	30.5
70°	*4216.8*	60.9	43.2	38.1	27.9
72.5°	*3445.0*	55.9	40.6	38.1	25.4
75°	*2680.9*	50.8	40.6	33.0	25.4
77.5°	*2005.6*	48.2	38.1	33.0	20.3
80°	*1332.8*	43.2	35.5	27.9	17.8
82.5°	*736.2*	40.6	30.5	25.4	17.8
85°	*241.2*	33.0	25.4	22.8	15.2
87.5°	*38.1*	22.8	20.3	20.3	12.7
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)