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-W-TWBWG-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 (P34176)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	8ILED-LD5-18-W-TWBWG-UNV-L835-CD2-U
Description:	Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD DISTRIBUION
Light Source:	(1) 3500 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15287.0 lumens
Efficiency:	N/A
Efficacy:	116.4 lumens/watt
Spacing Criteria (0/90/45):	1.13 / 1.24 / 1.28
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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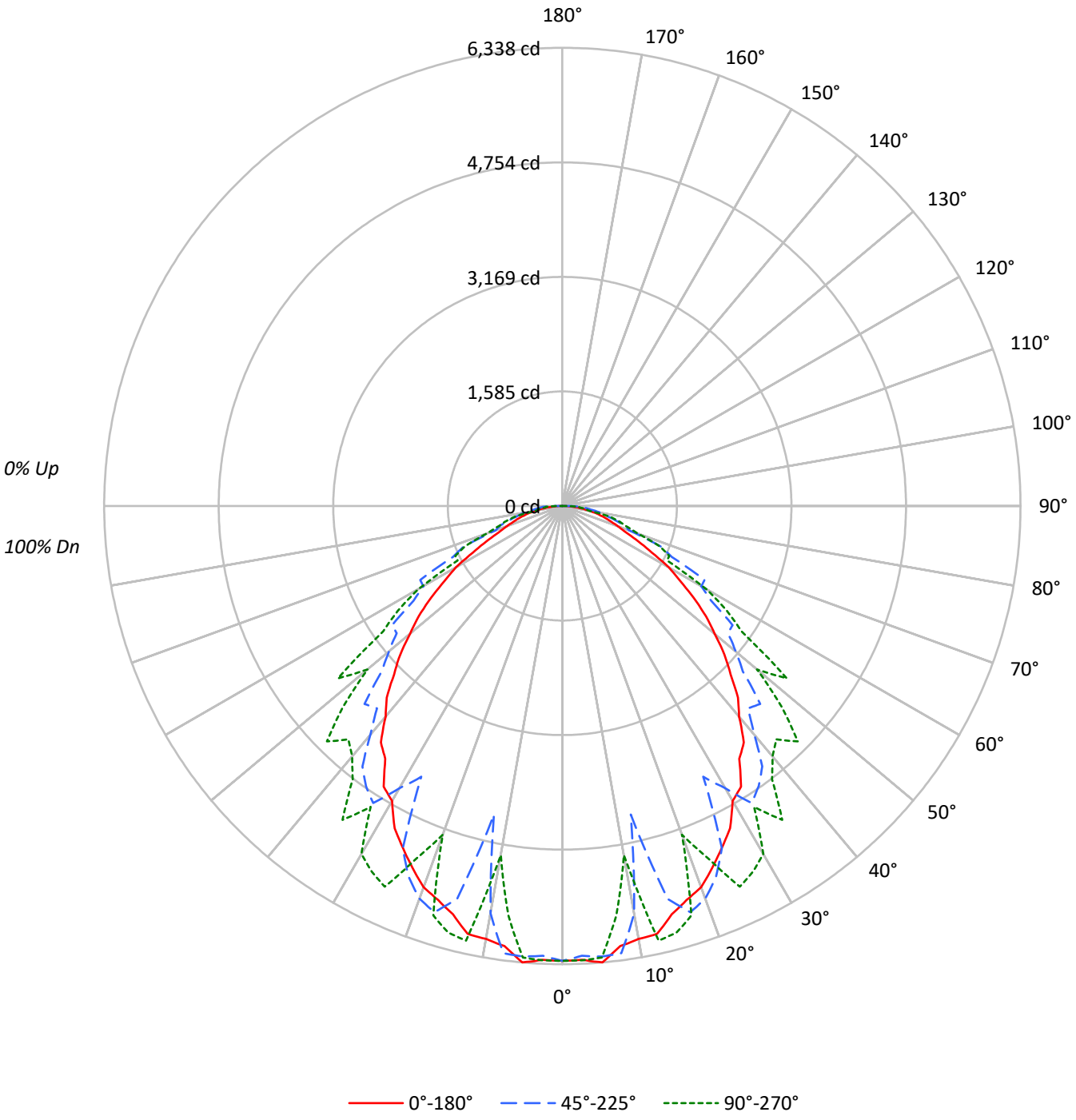
Luminous Intensity Polar Plot



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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	109	105	101	97	107	102	99	95	98	95	92	94	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	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9235	9235	9235
5°	9328	9147	9151
10°	9045	8406	7170
15°	8856	8356	9019
20°	8725	8753	7268
25°	8402	8129	8956
30°	7927	7276	8861
35°	7583	7999	8825
40°	7212	7381	7935
45°	6747	7400	8620
50°	6192	6483	7104
55°	5575	6550	6698
60°	4886	5666	5662
65°	3920	4893	4594
70°	3371	3405	3649
75°	3199	3268	3245
80°	2947	3077	1924
85°	2732	2777	1829

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.8	3.8
10°-20°	1609.8	10.5
20°-30°	2327.3	15.2
30°-40°	2914.8	19.1
40°-50°	2837.4	18.6
50°-60°	2428.7	15.9
60°-70°	1506.7	9.9
70°-80°	784.0	5.1
80°-90°	304.5	2.0
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°	4510.9	29.5
0°-40°	7425.7	48.6
0°-60°	12691.8	83.0
0°-90°	15287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6292	6292	6292	6292	6292	
5°	6338	6318	6255	6231	6270	592
15°	5848	5870	5626	6140	6109	1655
25°	5218	4325	5221	5367	5811	2398
35°	4269	4450	4733	4694	5301	2698
45°	3291	2954	3872	3959	4606	2546
55°	2218	2427	2874	3430	3025	1983
65°	1159	1300	1669	1412	1632	1176
75°	590	686	761	817	805	625
85°	185	246	327	376	244	199
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*6291.6*	6291.6	6291.6	6291.6	6291.6
2.5°	*6284.3*	6257.5	6228.2	6279.4	6289.2
5°	*6338.0*	*6318.4*	*6255.0*	*6230.6*	*6269.7*
7.5°	*6140.4*	6181.8	6240.4	5923.2	5718.3
10°	*6081.8*	6059.9	5725.6	4408.3	4903.5
12.5°	*6062.3*	6035.5	4371.7	6128.2	6157.4
15°	*5847.6*	5869.6	5625.6	6140.4	6108.6
17.5°	*5715.9*	5413.4	5891.5	5994.0	5937.9
20°	*5611.0*	4718.1	5779.3	5506.1	4837.6
22.5°	*5418.3*	4022.8	5554.9	4418.0	5276.8
25°	*5218.2*	4325.3	5220.6	5367.0	5811.0
27.5°	*5025.5*	4901.1	4222.9	5601.2	5706.1
30°	*4710.8*	4859.6	4505.9	5484.1	5557.3
32.5°	*4601.0*	4640.0	4871.8	5179.2	4935.2
35°	*4269.2*	4449.7	4732.7	4693.7	5301.2
37.5°	*4122.8*	4174.1	4542.5	4942.5	4762.0
40°	*3803.3*	3881.3	4130.2	4366.8	4520.5
42.5°	*3595.9*	3334.9	3795.9	4232.6	4379.0
45°	*3291.0*	2954.3	3871.6	3959.4	4605.9
47.5°	*3042.1*	2934.8	3388.5	4120.4	4120.4
50°	*2751.8*	2893.3	3129.9	3681.3	3515.4
52.5°	*2503.0*	2695.7	2888.4	3200.7	3915.5
55°	*2217.6*	2427.4	2873.8	3430.0	3025.0
57.5°	*1937.0*	2115.1	2439.6	2627.4	2698.1
60°	*1700.4*	1873.6	2217.6	2361.5	2293.2
62.5°	*1395.4*	1615.0	2217.6	1861.4	1632.1
65°	*1158.8*	1300.3	1668.7	1412.5	1632.1
67.5°	*951.4*	1097.8	1483.2	1363.7	1454.0
70°	*812.4*	917.3	980.7	1219.8	1105.1
72.5°	*695.3*	770.9	897.8	922.2	917.3
75°	*590.4*	685.5	761.1	817.3	805.1
77.5°	*490.4*	624.5	627.0	751.4	653.8
80°	*373.3*	426.9	541.6	490.4	368.4
82.5°	*273.2*	334.2	412.3	424.5	324.5
85°	*185.4*	246.4	326.9	375.7	244.0
87.5°	*85.4*	168.3	265.9	336.7	222.0
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)