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-WG-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 (P34174)
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-WG-UNV-L835-CD2-U
Description:	Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUION
Light Source:	(1) 3500 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16732.0 lumens
Efficiency:	N/A
Efficacy:	127.4 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.28 / 1.37
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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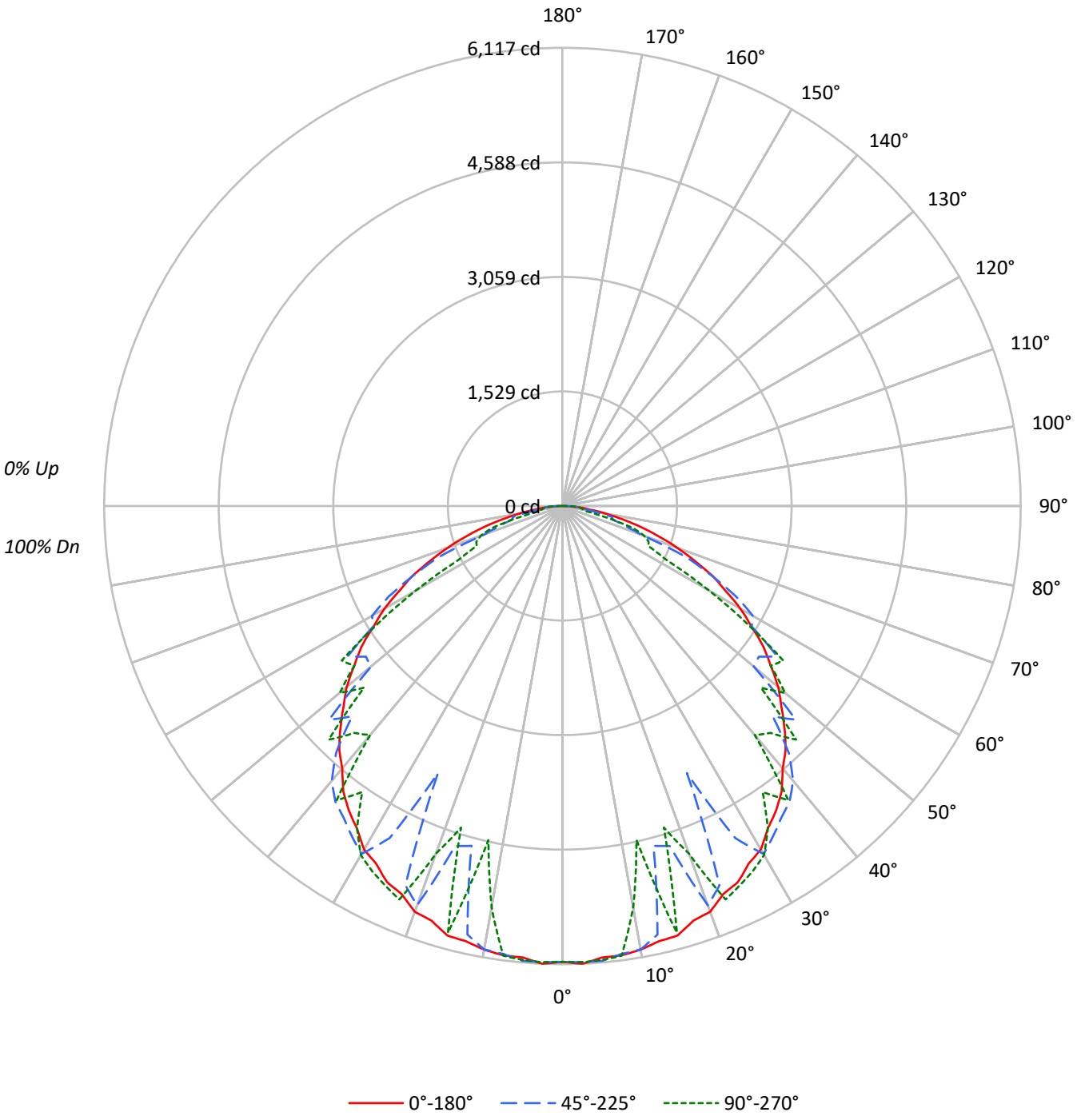
Luminous Intensity Polar Plot



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8932	8932	8932
5°	8906	8913	8877
10°	8944	8826	7960
15°	8990	6976	8710
20°	8961	8592	7423
25°	8922	6124	8618
30°	8909	8663	8582
35°	8824	8598	7758
40°	8670	8559	7007
45°	8594	7588	8256
50°	8459	6903	7844
55°	8238	7969	7963
60°	7887	7500	5603
65°	7477	6411	3557
70°	6742	3837	3827
75°	5870	2965	2625
80°	4641	2468	1516
85°	3523	1927	1755

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.4	3.4
10°-20°	1539.0	9.2
20°-30°	2386.4	14.3
30°-40°	3059.5	18.3
40°-50°	3133.2	18.7
50°-60°	2971.0	17.8
60°-70°	1903.0	11.4
70°-80°	924.7	5.5
80°-90°	238.8	1.4
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°	4501.8	26.9
0°-40°	7561.3	45.2
0°-60°	13665.5	81.7
0°-90°	16732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6085	6085	6085	6085	6085	
5°	6051	6068	6095	6109	6082	578
15°	5936	5936	4697	5524	5900	1667
25°	5541	4787	3933	5626	5592	2547
35°	4968	4999	5087	4955	4660	3103
45°	4192	4199	3970	3996	4411	3230
55°	3277	3379	3496	3372	3596	2911
65°	2210	2159	2186	1420	1264	2166
75°	1083	1210	690	837	651	1146
85°	239	210	227	239	234	271
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6085.0	*6085.0*	6085.0	6085.0	6085.0
2.5°	*6116.7*	*6121.6*	*6094.7*	*6085.0*	*6097.2*
5°	6050.8	*6067.9*	6094.7	6109.4	6082.5
7.5°	6048.4	*6055.7*	6033.7	6114.3	6055.7
10°	6014.2	*6055.7*	6011.8	5799.5	5443.3
12.5°	5950.8	*5958.1*	5858.1	4220.9	4567.4
15°	5936.2	*5936.2*	4696.7	5523.8	5899.6
17.5°	5804.4	*5836.1*	4760.1	5802.0	4501.5
20°	5762.9	*5743.4*	5672.7	4108.7	4940.7
22.5°	5606.8	*5472.6*	5477.5	5709.2	5687.3
25°	5540.9	*4787.0*	3933.0	5626.3	5592.1
27.5°	5384.7	*4013.6*	4996.8	5504.3	5497.0
30°	5294.5	*4174.6*	5365.2	5404.3	5382.3
32.5°	5104.2	*4791.9*	5231.0	5314.0	5101.7
35°	4967.5	*4999.3*	5087.1	4955.3	4660.1
37.5°	4804.1	*4586.9*	4977.3	4518.6	4952.9
40°	4572.3	*3574.4*	4789.4	4848.0	3991.6
42.5°	4408.8	*3498.7*	4472.2	3762.2	4111.1
45°	4191.7	*4199.0*	3969.6	3996.5	4411.2
47.5°	3964.8	*4057.5*	4223.4	4245.3	3591.5
50°	3759.8	*3850.1*	3332.8	3598.8	3881.8
52.5°	3503.6	*3630.5*	3306.0	3715.9	3503.6
55°	3276.7	*3379.2*	3496.3	3371.9	3596.3
57.5°	2986.4	*3149.8*	2993.7	3310.9	2922.9
60°	2744.8	*2742.4*	2935.1	2949.8	2269.1
62.5°	2454.5	*2435.0*	2610.6	1978.7	1571.3
65°	2210.5	*2159.3*	2186.1	1420.0	1263.8
67.5°	1905.5	*1690.8*	1800.6	1185.8	1244.3
70°	1624.9	*1615.2*	1105.3	822.2	1158.9
72.5°	1346.8	*1466.3*	871.0	1027.2	1002.8
75°	1083.3	*1210.2*	690.5	836.9	651.4
77.5°	812.5	*878.3*	680.7	512.4	317.2
80°	588.0	*414.8*	434.3	290.3	290.3
82.5°	380.6	*341.6*	253.7	270.8	256.2
85°	239.1	*209.8*	226.9	239.1	234.2
87.5°	83.0	*144.0*	180.5	175.7	161.0
90°	0.0	*0.0*	0.0	0.0	0.0

(END OF REPORT)