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-LD5-10-N-WG-UNV-L850-CD1-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 (P34186)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	8ILED-LD5-10-N-WG-UNV-L850-CD1-U
Description:	Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUION
Light Source:	(1) 5000 CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9799.0 lumens
Efficiency:	N/A
Efficacy:	146.3 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):	67
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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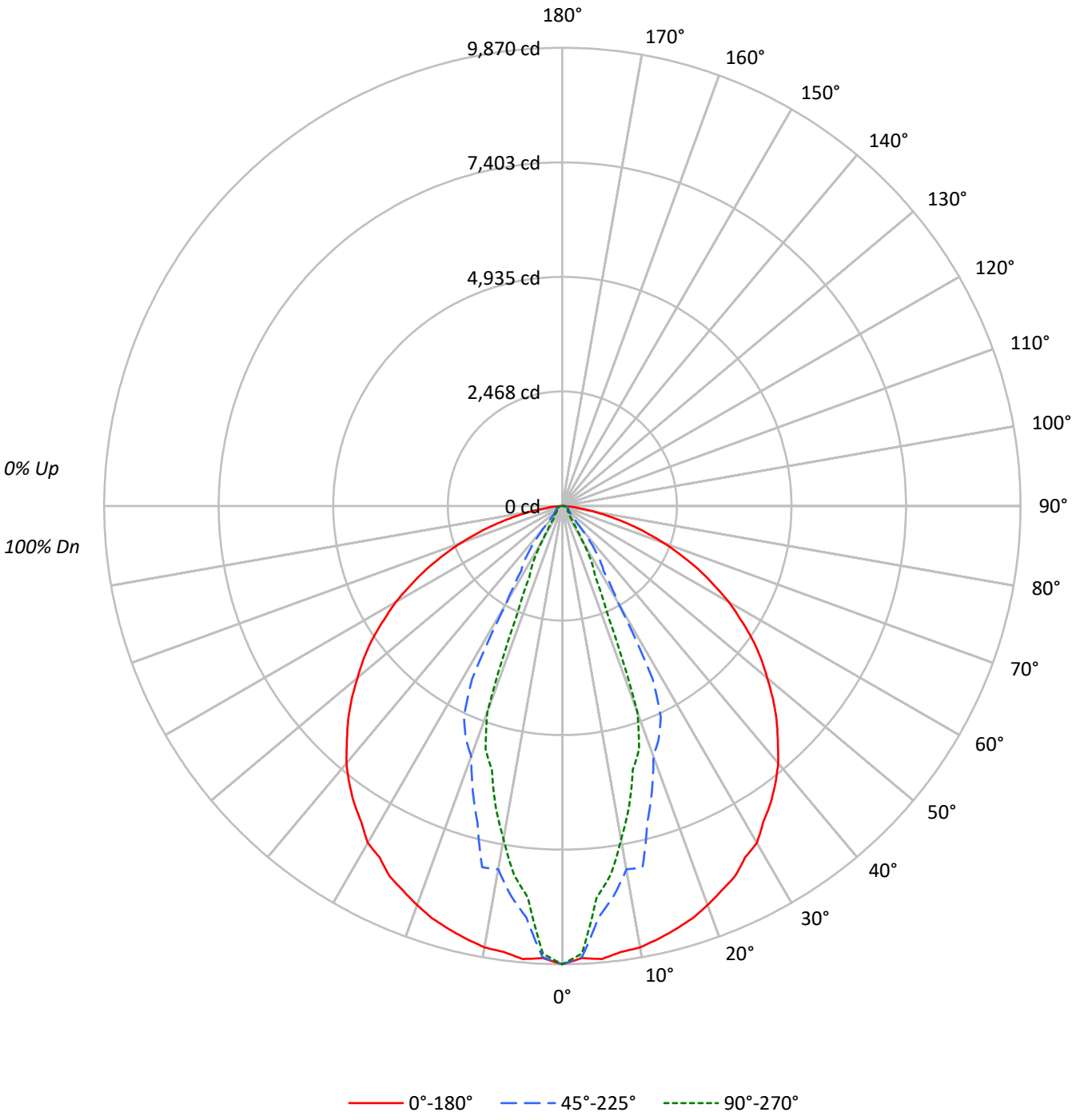
Luminous Intensity Polar Plot



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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°	14487	14487	14487
5°	14417	13018	12365
10°	14355	11670	10670
15°	14292	10496	8671
20°	14222	8689	7103
25°	14171	7812	2584
30°	14104	3893	1347
35°	13891	2357	513
40°	13719	1179	447
45°	13383	511	331
50°	12959	433	302
55°	12548	362	316
60°	11913	377	308
65°	10947	409	315
70°	9620	428	327
75°	7775	474	360
80°	5350	562	398
85°	3011	675	498

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.1	8.6
10°-20°	2043.8	20.9
20°-30°	2226.5	22.7
30°-40°	1712.8	17.5
40°-50°	1265.5	12.9
50°-60°	796.3	8.1
60°-70°	521.4	5.3
70°-80°	291.9	3.0
80°-90°	97.7	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°	5113.4	52.2
0°-40°	6826.2	69.7
0°-60°	8888.0	90.7
0°-90°	9799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9870	9870	9870	9870	9870	
5°	9795	9719	8902	8376	8472	928
15°	9437	8205	7066	6134	5873	2665
25°	8801	6577	5017	2234	1677	4046
35°	7820	4847	1394	444	308	4891
45°	6528	2581	268	225	177	5027
55°	4991	662	159	167	143	4446
65°	3236	164	139	125	112	3192
75°	1435	123	110	99	89	1540
85°	204	78	80	76	66	260
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*9869.9*	*9869.9*	*9869.9*	*9869.9*	*9869.9*
2.5°	*9748.3*	9751.5	9727.2	9678.6	9647.7
5°	*9795.3*	9719.1	8901.9	8376.5	8472.2
7.5°	*9688.3*	9294.3	8472.2	8079.8	8003.6
10°	*9652.6*	8642.4	7948.4	7815.5	7296.6
12.5°	*9550.5*	8246.8	7972.8	7134.5	6636.7
15°	*9437.0*	8204.6	7066.4	6134.0	5873.0
17.5°	*9313.7*	7834.9	6421.0	5621.6	5496.8
20°	*9146.7*	7598.2	5736.8	5167.6	4728.2
22.5°	*8966.7*	7484.7	5427.1	3367.8	2610.6
25°	*8801.3*	6576.7	5016.8	2234.4	1676.6
27.5°	*8528.9*	6503.7	4214.2	1636.1	1383.1
30°	*8381.4*	5829.2	2411.1	1230.7	844.8
32.5°	*8061.9*	5300.6	1650.7	747.5	504.3
35°	*7820.3*	4846.6	1394.5	444.3	308.1
37.5°	*7536.6*	4546.6	1042.6	304.8	267.5
40°	*7235.0*	4193.1	659.9	272.4	254.6
42.5°	*6868.5*	3776.4	390.8	256.2	218.9
45°	*6528.0*	2581.4	267.5	225.4	176.7
47.5°	*6151.9*	1760.9	228.6	191.3	152.4
50°	*5759.5*	1151.2	209.2	170.3	149.2
52.5°	*5391.4*	943.7	181.6	170.3	149.2
55°	*4990.9*	661.6	158.9	167.0	142.7
57.5°	*4551.5*	411.9	149.2	162.1	137.8
60°	*4146.1*	243.2	147.6	157.3	124.9
62.5°	*3672.6*	184.8	144.3	139.4	118.4
65°	*3236.5*	163.8	139.4	124.9	111.9
67.5°	*2767.8*	147.6	129.7	120.0	108.6
70°	*2318.7*	133.0	123.2	111.9	98.9
72.5°	*1867.9*	128.1	116.7	105.4	94.0
75°	*1435.0*	123.2	110.3	98.9	89.2
77.5°	*1044.2*	115.1	103.8	95.7	84.3
80°	*677.8*	105.4	98.9	89.2	76.2
82.5°	*377.8*	95.7	90.8	82.7	73.0
85°	*204.3*	77.8	79.5	76.2	66.5
87.5°	*37.3*	55.1	68.1	66.5	58.4
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)