

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-LD5-14-W-CLWG-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-W-CLWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13275.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

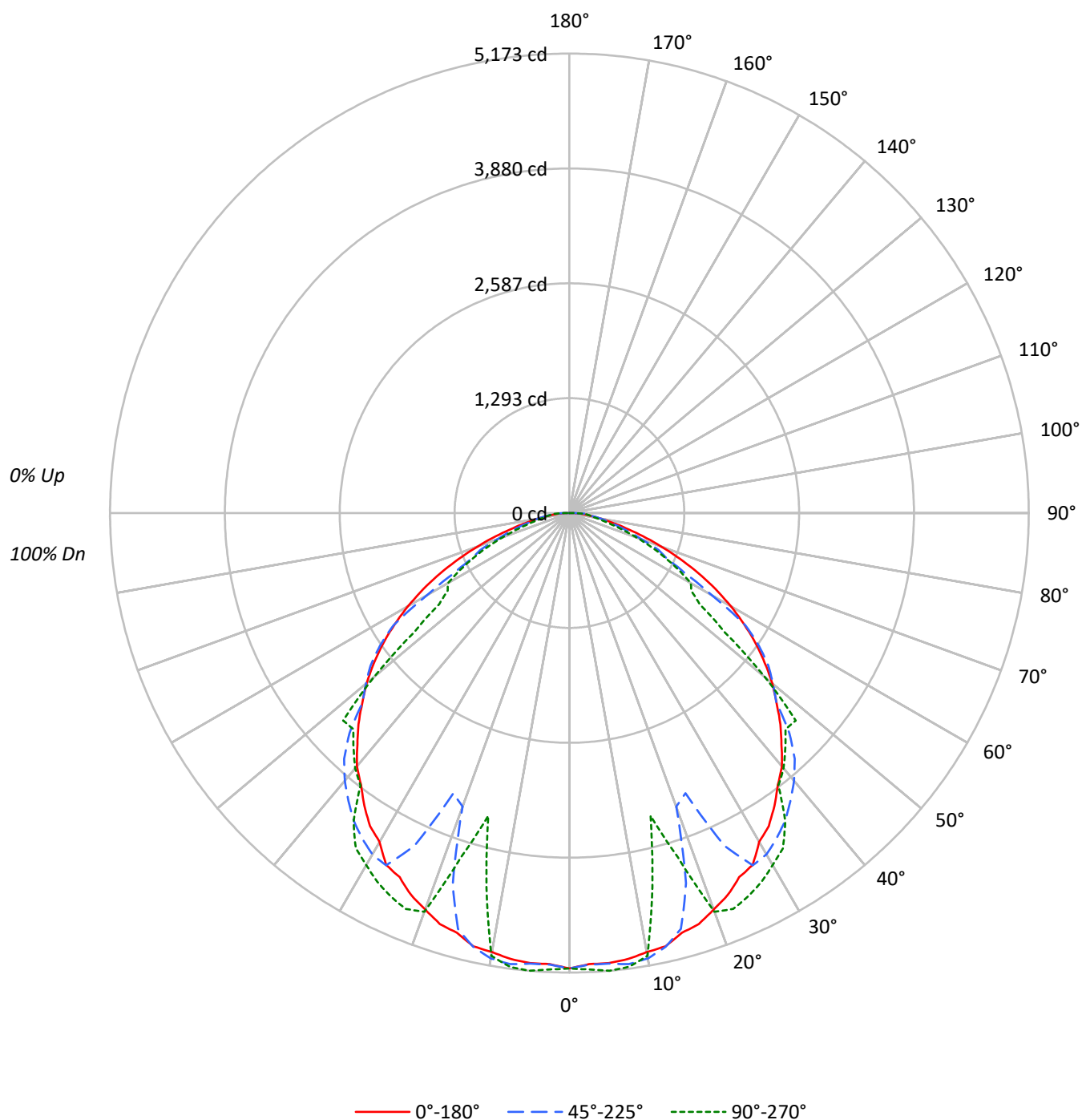
Input Watts (W): 100.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	92	86	80	97	90	84	79		87	82	77		83	79	76		80	77	74
3	91	81	73	67	89	80	72	67		77	71	65		74	69	64		72	67	63
4	84	72	64	57	82	71	63	57		68	62	56		66	60	55		64	59	55
5	77	65	56	49	75	64	55	49		61	54	49		59	53	48		58	52	48
6	71	58	50	43	69	57	49	43		56	48	43		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		51	43	38		49	42	38		48	42	37
8	62	48	40	34	60	48	40	34		46	39	34		45	38	34		44	38	33
9	58	44	36	31	56	44	36	31		43	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7525	7525	7525
5°	7486	7445	7550
10°	7464	7474	7401
15°	7410	7201	5210
20°	7385	5325	7176
25°	7284	6436	7339
30°	7193	7165	7297
35°	7148	7154	7057
40°	7059	7033	6586
45°	6889	6697	6439
50°	6706	6195	5819
55°	6444	5938	3962
60°	6033	4750	3898
65°	5426	3536	3358
70°	4548	3015	2666
75°	3564	2416	1962
80°	2712	2060	1497
85°	2454	1755	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.7	3.7
10°-20°	1290.1	9.7
20°-30°	2057.0	15.5
30°-40°	2468.8	18.6
40°-50°	2625.7	19.8
50°-60°	2148.1	16.2
60°-70°	1362.0	10.3
70°-80°	629.2	4.7
80°-90°	207.5	1.6
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°	3833.8	28.9
0°-40°	6302.6	47.5
0°-60°	11076.3	83.4
0°-90°	13275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5126	5126	5126	5126	5126	
5°	5086	5088	5091	5131	5173	483
15°	4892	4968	4848	3820	3529	1387
25°	4524	4536	4134	4720	4762	2095
35°	4024	3016	4233	4313	4239	2514
45°	3360	3375	3503	3417	3440	2588
55°	2563	2698	2605	2019	1790	2283
65°	1604	1632	1206	1214	1193	1582
75°	658	624	563	521	487	720
85°	166	181	207	207	200	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5126.4	5126.4	5126.4	5126.4	5126.4
2.5°	5082.2	5090.6	5088.5	5126.4	5143.3
5°	5086.4	5088.5	5090.6	5130.7	5172.8
7.5°	5063.2	5107.5	5122.2	5107.5	5151.7
10°	5018.9	5059.0	5090.6	5046.3	5061.1
12.5°	4995.8	5054.8	5002.1	4785.0	4312.8
15°	4892.5	4968.4	4848.2	3819.5	3528.6
17.5°	4850.3	4900.9	4369.7	3511.8	4061.9
20°	4749.1	4818.7	3516.0	4515.2	4776.5
22.5°	4656.4	4707.0	3412.7	4749.1	4822.9
25°	4523.6	4536.2	4133.6	4719.6	4761.8
27.5°	4466.7	4277.0	4470.9	4658.5	4681.7
30°	4274.8	3884.9	4437.2	4574.2	4576.3
32.5°	4177.9	3383.2	4342.3	4451.9	4475.1
35°	4024.0	3016.4	4232.7	4312.8	4239.0
37.5°	3855.4	2963.7	4087.2	4045.1	3865.9
40°	3722.6	3233.5	3935.5	3674.1	3752.1
42.5°	3535.0	3398.0	3754.2	3583.5	3598.2
45°	3360.0	3374.8	3503.4	3416.9	3440.1
47.5°	3161.9	3258.8	3159.8	3273.6	3457.0
50°	2980.6	3083.9	2991.1	3178.7	2879.4
52.5°	2774.0	2902.6	2824.6	2556.9	2209.1
55°	2563.2	2698.1	2605.4	2019.4	1789.6
57.5°	2333.5	2445.2	2348.2	1654.7	1625.2
60°	2099.5	2188.0	1859.2	1507.2	1578.8
62.5°	1852.9	1907.7	1467.1	1389.1	1384.9
65°	1604.1	1631.5	1205.7	1214.2	1193.1
67.5°	1344.8	1357.5	1085.6	1028.7	997.0
70°	1096.1	1087.7	868.5	836.8	807.3
72.5°	868.5	828.4	706.2	664.0	628.2
75°	657.7	623.9	562.8	520.7	486.9
77.5°	489.0	470.1	440.6	444.8	373.1
80°	343.6	345.7	362.6	307.8	286.7
82.5°	238.2	250.8	259.3	255.1	248.7
85°	166.5	181.3	206.6	206.6	200.3
87.5°	84.3	124.4	166.5	177.1	172.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)