

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: **4ILED-LD5-14-W-TWBWG-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 (P34176)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-TWBWG-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

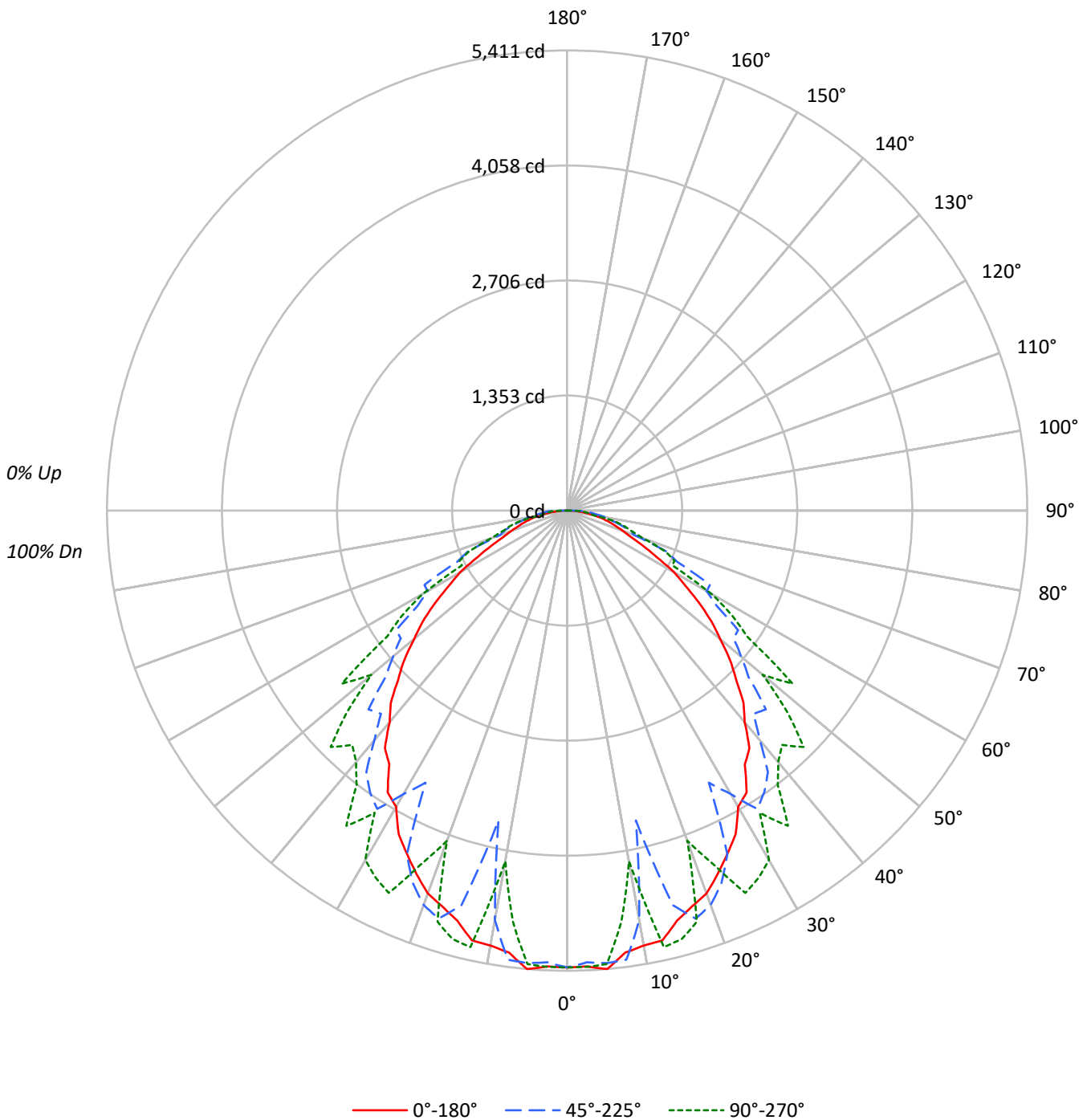
Lumens per Lamp: N/A
Luminaire Lumens: 13052.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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				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°	15770	15770	15770
5°	15911	15608	15625
10°	15411	14333	12244
15°	15073	14236	15401
20°	14831	14901	12411
25°	14265	13827	15292
30°	13440	12364	15131
35°	12838	13580	15069
40°	12188	12517	13550
45°	11381	12535	14720
50°	10420	10965	12130
55°	9356	11060	11437
60°	8170	9548	9668
65°	6523	8224	7844
70°	5571	5701	6231
75°	5230	5445	5541
80°	4719	5084	3285
85°	4147	4511	3123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.9	3.8
10°-20°	1374.5	10.5
20°-30°	1987.1	15.2
30°-40°	2488.6	19.1
40°-50°	2422.5	18.6
50°-60°	2073.6	15.9
60°-70°	1286.4	9.9
70°-80°	669.4	5.1
80°-90°	260.0	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
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0°-30°	3851.4	29.5
0°-40°	6340.1	48.6
0°-60°	10836.2	83.0
0°-90°	13052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5372	5372	5372	5372	5372	
5°	5411	5395	5340	5320	5353	505
15°	4993	5011	4803	5243	5216	1413
25°	4455	3693	4457	4582	4961	2047
35°	3645	3799	4041	4008	4526	2303
45°	2810	2522	3306	3380	3932	2173
55°	1893	2072	2454	2928	2583	1693
65°	989	1110	1425	1206	1394	1004
75°	504	585	650	698	687	534
85°	158	210	279	321	208	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5371.8	5371.8	5371.8	5371.8	5371.8
2.5°	5365.5	5342.6	5317.6	5361.3	5369.7
5°	5411.3	5394.7	5340.5	5319.7	5353.0
7.5°	5242.6	5278.0	5328.0	5057.2	4882.3
10°	5192.6	5173.9	4888.5	3763.8	4186.6
12.5°	5176.0	5153.1	3732.5	5232.2	5257.2
15°	4992.7	5011.4	4803.1	5242.6	5215.5
17.5°	4880.2	4621.9	5030.2	5117.6	5069.7
20°	4790.6	4028.3	4934.4	4701.1	4130.4
22.5°	4626.1	3434.7	4742.7	3772.1	4505.3
25°	4455.3	3693.0	4457.4	4582.3	4961.4
27.5°	4290.7	4184.5	3605.5	4782.3	4871.9
30°	4022.1	4149.1	3847.1	4682.3	4744.8
32.5°	3928.3	3961.6	4159.5	4422.0	4213.7
35°	3645.0	3799.2	4040.8	4007.5	4526.1
37.5°	3520.1	3563.8	3878.3	4219.9	4065.8
40°	3247.2	3313.9	3526.3	3728.4	3859.6
42.5°	3070.2	2847.3	3241.0	3613.8	3738.8
45°	2809.8	2522.4	3305.5	3380.5	3932.5
47.5°	2597.4	2505.7	2893.1	3518.0	3518.0
50°	2349.5	2470.3	2672.3	3143.1	3001.4
52.5°	2137.0	2301.6	2466.1	2732.7	3343.0
55°	1893.3	2072.5	2453.6	2928.5	2582.8
57.5°	1653.8	1805.9	2082.9	2243.3	2303.7
60°	1451.8	1599.7	1893.3	2016.2	1957.9
62.5°	1191.4	1378.9	1893.3	1589.2	1393.5
65°	989.4	1110.2	1424.7	1206.0	1393.5
67.5°	812.3	937.3	1266.4	1164.3	1241.4
70°	693.6	783.2	837.3	1041.4	943.5
72.5°	593.6	658.2	766.5	787.3	783.2
75°	504.1	585.3	649.9	697.8	687.4
77.5°	418.7	533.2	535.3	641.5	558.2
80°	318.7	364.5	462.4	418.7	314.5
82.5°	233.3	285.4	352.0	362.4	277.0
85°	158.3	210.4	279.1	320.8	208.3
87.5°	72.9	143.7	227.0	287.4	189.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)