

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-UNV-L840-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 (P34173)  
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-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

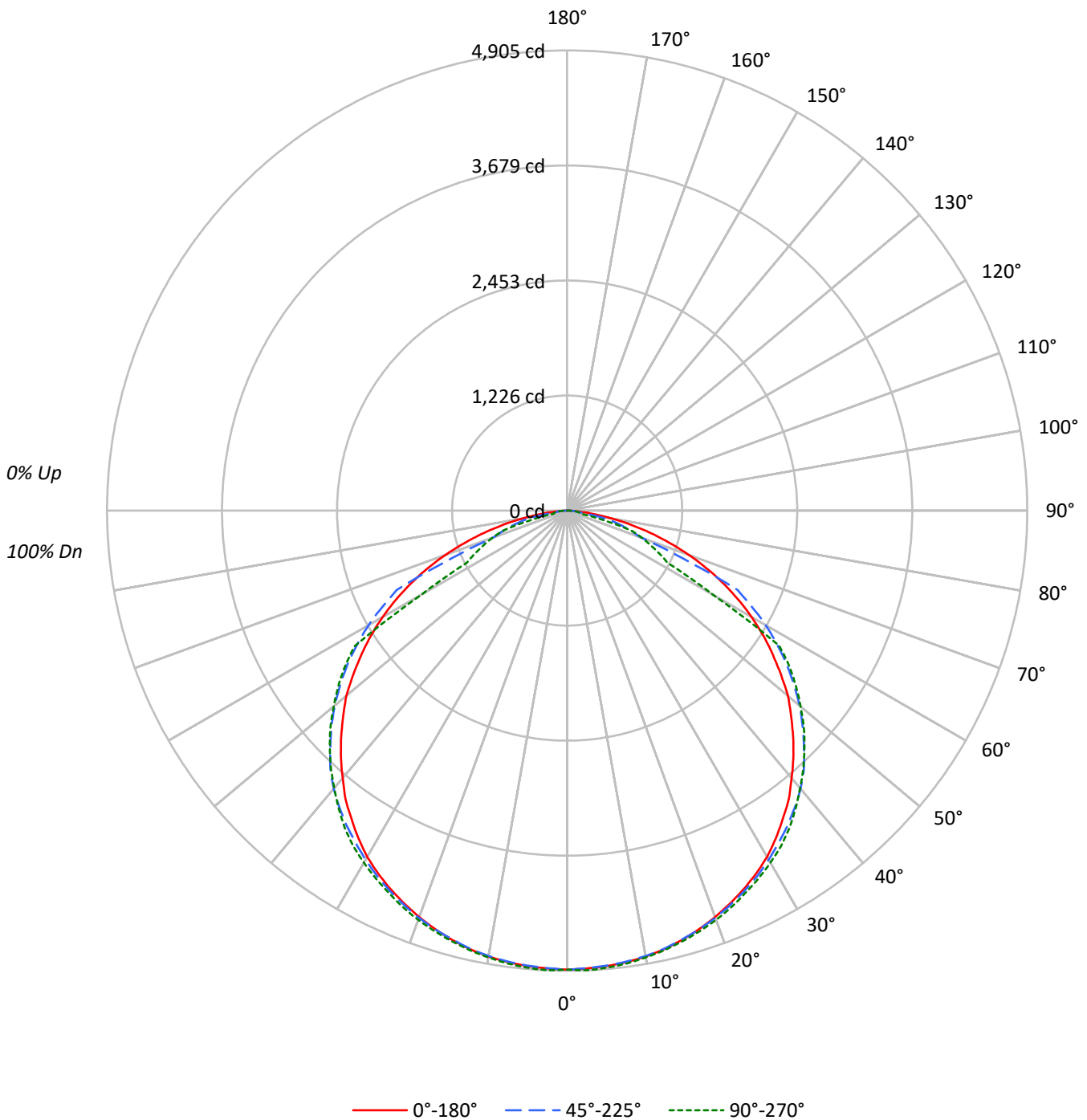
Lumens per Lamp: N/A  
Luminaire Lumens: 14120.0 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 100.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P#  
CATALOG NUMBER: 8ILED-LD5-14-W-UNV-L840-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-UNV-L840-CD2-U

**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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7182	7182	7182
5°	7173	7121	7138
10°	7178	7078	7073
15°	7174	7028	7017
20°	7169	6998	6976
25°	7169	6964	6931
30°	7171	6938	6910
35°	7123	6926	6877
40°	7057	6920	6783
45°	6983	6824	6696
50°	6914	6700	6564
55°	6726	6515	6402
60°	6529	6254	4446
65°	6209	5880	3049
70°	5716	2875	2792
75°	4942	2510	1744
80°	3737	1495	712
85°	1952	761	657



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-UNV-L840-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.2	3.3
10°-20°	1340.1	9.5
20°-30°	2066.3	14.6
30°-40°	2558.6	18.1
40°-50°	2723.7	19.3
50°-60°	2513.3	17.8
60°-70°	1609.2	11.4
70°-80°	724.9	5.1
80°-90°	119.7	0.8
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°	3870.6	27.4
0°-40°	6429.2	45.5
0°-60°	11666.3	82.6
0°-90°	14120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14120.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4893	4893	4893	4893	4893	
5°	4874	4881	4870	4883	4891	464
15°	4737	4745	4731	4755	4753	1338
25°	4453	4464	4472	4501	4497	2053
35°	4010	4051	4098	4141	4131	2510
45°	3406	3476	3570	3593	3578	2628
55°	2675	2773	2859	2905	2892	2393
65°	1836	1923	2005	1107	1083	1813
75°	912	992	585	600	433	969
85°	132	99	90	96	88	193
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-14-W-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4893.0	4893.0	4893.0	4893.0	4893.0
2.5°	4885.2	4894.9	4881.3	4894.9	4904.7
5°	4873.5	4881.3	4869.6	4883.2	4891.0
7.5°	4854.0	4861.8	4848.2	4861.8	4869.6
10°	4826.7	4830.6	4820.9	4834.5	4836.5
12.5°	4787.7	4791.6	4783.8	4797.5	4799.4
15°	4737.1	4744.9	4731.2	4754.6	4752.7
17.5°	4678.6	4686.4	4680.6	4698.1	4700.1
20°	4610.4	4618.2	4620.2	4641.6	4643.5
22.5°	4534.4	4546.1	4548.1	4577.3	4575.3
25°	4452.6	4464.3	4472.1	4501.3	4497.4
27.5°	4362.9	4378.5	4390.2	4419.5	4419.5
30°	4261.6	4283.1	4296.7	4335.7	4333.7
32.5°	4140.8	4181.7	4197.3	4246.0	4242.1
35°	4010.2	4051.2	4097.9	4140.8	4131.1
37.5°	3881.6	3922.6	3986.9	4012.2	4000.5
40°	3721.9	3790.1	3871.9	3881.6	3864.1
42.5°	3569.9	3624.4	3735.5	3741.3	3725.8
45°	3406.2	3476.3	3569.9	3593.2	3577.7
47.5°	3236.6	3297.1	3406.2	3435.4	3423.7
50°	3073.0	3127.5	3234.7	3263.9	3248.3
52.5°	2872.3	2954.1	3045.7	3092.5	3074.9
55°	2675.4	2772.9	2858.6	2905.4	2891.7
57.5°	2478.6	2585.8	2650.1	2714.4	2681.3
60°	2272.1	2377.3	2447.5	2418.2	1800.5
62.5°	2057.7	2159.1	2217.5	1486.8	1206.2
65°	1835.6	1923.3	2005.1	1106.8	1083.4
67.5°	1609.6	1697.2	1334.8	984.1	962.6
70°	1377.7	1459.5	828.2	857.4	845.7
72.5°	1143.8	1221.8	711.2	744.4	728.8
75°	912.0	991.8	584.6	600.2	432.6
77.5°	695.7	684.0	471.6	331.3	148.1
80°	473.5	315.7	263.1	138.4	136.4
82.5°	294.2	212.4	111.1	122.8	120.8
85°	132.5	99.4	89.6	95.5	87.7
87.5°	46.8	48.7	54.6	50.7	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)