

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-FLUPL-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 (P34183)
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-FLUPL-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH FROST LENS WITH UPL DISTRIBUTION

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

Summary

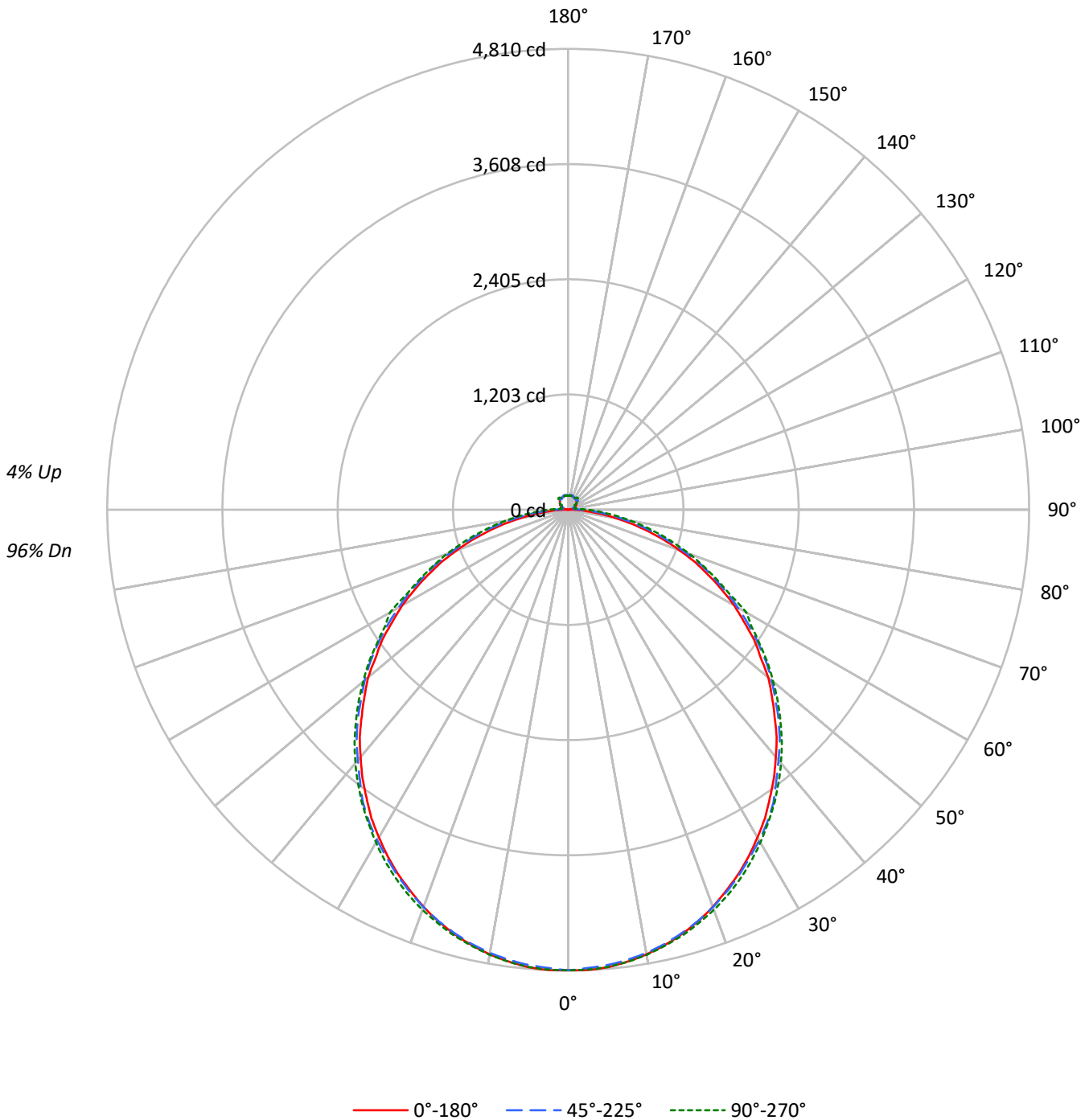
Lumens per Lamp: N/A
Luminaire Lumens: 14190.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
Input Voltage (V):
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	86	84	82	79				
2	98	89	82	76	95	87	81	75	83	77	73	79	74	70	75	72	68	66				
3	89	78	70	63	86	76	69	63	73	66	61	69	64	59	66	62	58	55				
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47				
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	48	43	41				
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	42	38	36				
7	64	50	42	36	62	49	41	35	48	40	35	46	39	34	44	38	34	32				
8	60	46	38	32	58	45	37	31	43	36	31	42	35	31	40	35	30	28				
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	31	27	25				
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7057	7057	7057
5°	7054	6976	6991
10°	7009	6898	6899
15°	6946	6797	6793
20°	6860	6686	6677
25°	6759	6560	6550
30°	6645	6437	6396
35°	6520	6309	6238
40°	6389	6102	6063
45°	6244	5936	5864
50°	6131	5737	5642
55°	5956	5501	5399
60°	5749	5220	5302
65°	5463	4889	4791
70°	5111	4501	4429
75°	4638	4017	3971
80°	3987	3408	3456
85°	3190	2705	2872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	3.2
10°-20°	1294.5	9.1
20°-30°	1945.1	13.7
30°-40°	2327.2	16.4
40°-50°	2392.6	16.9
50°-60°	2154.8	15.2
60°-70°	1656.1	11.7
70°-80°	985.9	6.9
80°-90°	357.2	2.5
90°-100°	77.0	0.5
100°-110°	64.0	0.5
110°-120°	75.4	0.5
120°-130°	93.3	0.7
130°-140°	101.9	0.7
140°-150°	87.5	0.6
150°-160°	65.8	0.5
160°-170°	42.8	0.3
170°-180°	14.4	0.1
0°-30°	3694.0	26.0
0°-40°	6021.2	42.4
0°-60°	10568.6	74.5
0°-90°	13567.8	95.6
90°-120°	216.4	1.5
90°-150°	499.2	3.5
90°-180°	622.0	4.4
0°-180°	14190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4808	4808	4808	4808	4808	
5°	4793	4790	4770	4788	4790	455
15°	4586	4589	4576	4596	4601	1293
25°	4198	4205	4213	4243	4250	1933
35°	3670	3715	3733	3740	3748	2298
45°	3046	3078	3106	3135	3133	2354
55°	2369	2379	2414	2434	2439	2110
65°	1615	1630	1667	1700	1702	1601
75°	856	881	936	988	985	909
85°	216	259	318	366	383	238
90°	5	65	129	177	192	17
95°	17	42	62	90	100	18
105°	52	45	57	92	82	54
115°	82	92	65	67	67	81
125°	104	104	119	97	85	94
135°	122	119	137	144	142	95
145°	134	137	132	144	154	84
155°	142	152	142	137	137	66
165°	147	152	157	152	147	42
175°	149	149	152	149	144	14
180°	147	147	147	147	147	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-FLUPL-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4807.6	4807.6	4807.6	4807.6	4807.6
2.5°	4810.1	4807.6	4787.7	4802.6	4805.1
5°	4792.7	4790.2	4770.3	4787.7	4790.2
7.5°	4757.8	4757.8	4737.9	4757.8	4760.3
10°	4713.0	4713.0	4698.1	4715.5	4718.0
12.5°	4655.8	4658.3	4643.4	4663.3	4663.3
15°	4586.1	4588.6	4576.2	4596.1	4601.1
17.5°	4506.5	4506.5	4501.5	4523.9	4526.4
20°	4411.9	4424.4	4414.4	4439.3	4444.3
22.5°	4304.9	4317.4	4317.4	4344.8	4352.2
25°	4197.9	4205.4	4212.9	4242.7	4250.2
27.5°	4078.5	4093.4	4095.9	4128.3	4135.7
30°	3949.1	3974.0	3986.4	4006.3	4011.3
32.5°	3819.7	3852.1	3867.0	3876.9	3879.4
35°	3670.4	3715.2	3732.6	3740.1	3747.5
37.5°	3526.1	3563.4	3568.4	3595.7	3603.2
40°	3369.3	3414.1	3414.1	3446.4	3453.9
42.5°	3220.0	3230.0	3267.3	3289.7	3299.6
45°	3045.8	3078.2	3105.5	3135.4	3132.9
47.5°	2881.6	2923.9	2931.3	2958.7	2966.2
50°	2724.8	2754.7	2769.6	2792.0	2792.0
52.5°	2530.7	2570.5	2602.9	2615.3	2622.8
55°	2369.0	2378.9	2413.8	2433.7	2438.6
57.5°	2172.4	2197.3	2229.6	2254.5	2266.9
60°	2000.7	2015.6	2043.0	2077.8	2147.5
62.5°	1806.6	1824.0	1858.8	1963.4	1891.2
65°	1615.0	1629.9	1667.2	1699.6	1702.1
67.5°	1433.3	1448.3	1500.5	1510.5	1517.9
70°	1231.8	1251.7	1296.5	1328.8	1341.3
72.5°	1047.6	1065.0	1109.8	1147.2	1159.6
75°	856.0	880.9	935.6	987.9	985.4
77.5°	674.4	719.1	763.9	806.2	818.7
80°	505.1	540.0	599.7	644.5	661.9
82.5°	353.4	393.2	452.9	497.7	515.1
85°	216.5	258.8	318.5	365.8	383.2
87.5°	104.5	146.8	211.5	258.8	278.7
90°	5.0	64.7	129.4	176.7	191.6
92.5°	10.0	37.3	84.6	121.9	134.4
95°	17.4	42.3	62.2	89.6	99.5
97.5°	24.9	37.3	54.7	72.2	79.6
100°	34.8	37.3	62.2	64.7	69.7
102.5°	42.3	39.8	59.7	64.7	64.7
105°	52.3	44.8	57.2	92.1	82.1
107.5°	59.7	62.2	54.7	64.7	69.7
110°	67.2	72.2	59.7	69.7	69.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.7	82.1	64.7	64.7	69.7
115°	82.1	92.1	64.7	67.2	67.2
117.5°	89.6	94.6	77.1	72.2	72.2
120°	94.6	97.0	97.0	72.2	77.1
122.5°	99.5	102.0	109.5	79.6	77.1
125°	104.5	104.5	119.4	97.0	84.6
127.5°	109.5	109.5	126.9	114.5	102.0
130°	114.5	109.5	134.4	124.4	119.4
132.5°	119.4	114.5	136.9	134.4	129.4
135°	121.9	119.4	136.9	144.3	141.8
137.5°	126.9	124.4	131.9	151.8	149.3
140°	129.4	129.4	131.9	151.8	156.8
142.5°	131.9	131.9	131.9	149.3	156.8
145°	134.4	136.9	131.9	144.3	154.3
147.5°	136.9	141.8	131.9	141.8	146.8
150°	139.4	144.3	131.9	139.4	141.8
152.5°	141.8	149.3	136.9	136.9	139.4
155°	141.8	151.8	141.8	136.9	136.9
157.5°	144.3	151.8	144.3	136.9	136.9
160°	144.3	154.3	149.3	141.8	139.4
162.5°	146.8	154.3	154.3	146.8	144.3
165°	146.8	151.8	156.8	151.8	146.8
167.5°	149.3	151.8	156.8	154.3	149.3
170°	149.3	151.8	154.3	154.3	149.3
172.5°	149.3	151.8	154.3	151.8	149.3
175°	149.3	149.3	151.8	149.3	144.3
177.5°	149.3	149.3	149.3	146.8	144.3
180°	146.8	146.8	146.8	146.8	146.8

(END OF REPORT)