

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-FL-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 (P34181)
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-FL-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

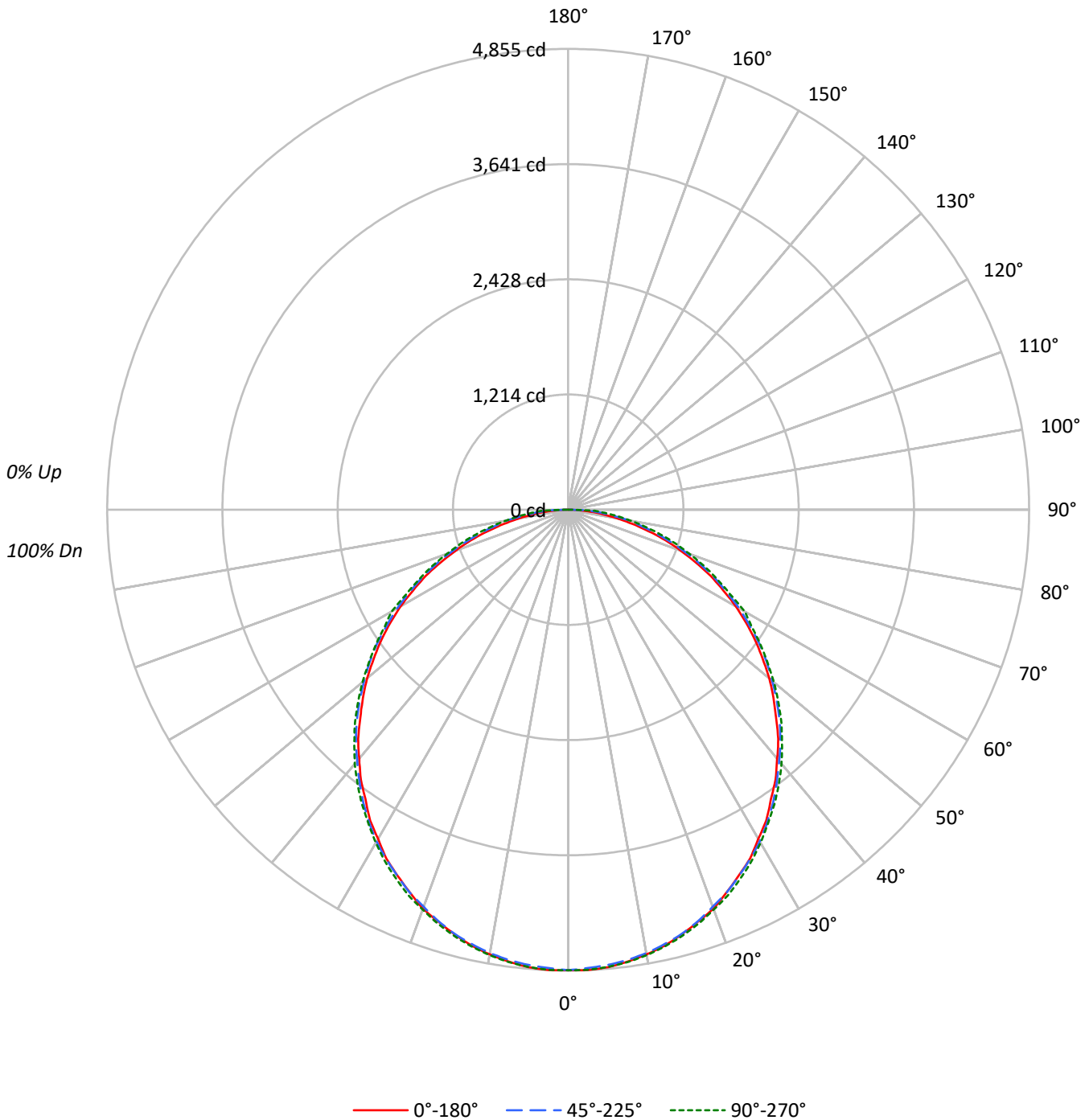
Lumens per Lamp: N/A
Luminaire Lumens: 13739.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-18-W-FL-UNV-L840-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-FL-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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7122	7122	7122
5°	7120	7041	7056
10°	7076	6963	6968
15°	7013	6871	6863
20°	6957	6742	6736
25°	6847	6629	6611
30°	6737	6517	6463
35°	6612	6359	6305
40°	6492	6177	6137
45°	6346	6017	5943
50°	6220	5808	5717
55°	6056	5598	5471
60°	5856	5315	5302
65°	5605	4991	4868
70°	5224	4570	4478
75°	4760	4102	4042
80°	4164	3676	3496
85°	3484	2769	2910



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.6	3.3
10°-20°	1307.3	9.5
20°-30°	1967.1	14.3
30°-40°	2353.4	17.1
40°-50°	2425.2	17.7
50°-60°	2186.5	15.9
60°-70°	1679.4	12.2
70°-80°	1011.1	7.4
80°-90°	350.6	2.6
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°	3733.0	27.2
0°-40°	6086.3	44.3
0°-60°	10698.0	77.9
0°-90°	13739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4852	4852	4852	4852	4852	
5°	4837	4832	4815	4832	4835	459
15°	4631	4636	4626	4646	4648	1307
25°	4252	4255	4258	4282	4290	1961
35°	3722	3760	3762	3785	3787	2333
45°	3096	3123	3148	3173	3175	2393
55°	2409	2429	2456	2471	2471	2150
65°	1657	1662	1702	1722	1729	1633
75°	878	903	956	990	1003	933
85°	236	274	326	371	388	266
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4852.2	4852.2	4852.2	4852.2	4852.2
2.5°	4854.7	4852.2	4832.3	4847.2	4852.2
5°	4837.3	4832.3	4814.9	4832.3	4834.8
7.5°	4802.4	4800.0	4785.0	4802.4	4807.4
10°	4757.7	4757.7	4742.7	4760.1	4765.1
12.5°	4702.9	4700.4	4688.0	4707.9	4712.9
15°	4630.8	4635.7	4625.8	4645.7	4648.2
17.5°	4551.1	4553.6	4546.2	4563.6	4571.0
20°	4474.0	4461.6	4451.6	4481.5	4483.9
22.5°	4362.0	4367.0	4364.5	4391.9	4396.9
25°	4252.5	4255.0	4257.5	4282.4	4289.9
27.5°	4145.5	4143.0	4150.5	4170.4	4177.9
30°	4003.7	4023.6	4036.0	4051.0	4053.5
32.5°	3881.8	3889.2	3904.2	3914.1	3916.6
35°	3722.5	3759.8	3762.3	3784.7	3787.2
37.5°	3585.7	3598.1	3610.5	3637.9	3642.9
40°	3423.9	3441.3	3456.3	3481.2	3496.1
42.5°	3274.6	3294.5	3309.5	3331.9	3334.3
45°	3095.5	3122.8	3147.7	3172.6	3175.1
47.5°	2931.2	2958.6	2978.5	2998.4	3000.9
50°	2764.5	2786.9	2804.3	2829.2	2829.2
52.5°	2580.4	2607.8	2635.1	2645.1	2645.1
55°	2408.7	2428.6	2456.0	2470.9	2470.9
57.5°	2222.1	2232.0	2261.9	2289.3	2289.3
60°	2037.9	2050.4	2080.2	2100.1	2147.4
62.5°	1841.4	1861.3	1881.2	1945.9	1918.5
65°	1657.2	1662.2	1702.0	1721.9	1729.4
67.5°	1453.2	1470.6	1510.4	1532.8	1547.7
70°	1259.1	1281.5	1316.3	1343.7	1356.1
72.5°	1075.0	1084.9	1129.7	1167.0	1184.4
75°	878.4	903.3	955.5	990.3	1002.8
77.5°	691.8	731.6	781.3	903.3	833.6
80°	527.5	557.4	647.0	651.9	669.4
82.5°	368.3	403.1	462.8	502.6	522.5
85°	236.4	273.7	326.0	370.8	388.2
87.5°	109.5	149.3	216.5	266.2	281.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)