

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-CL-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 (P34177)  
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-CL-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

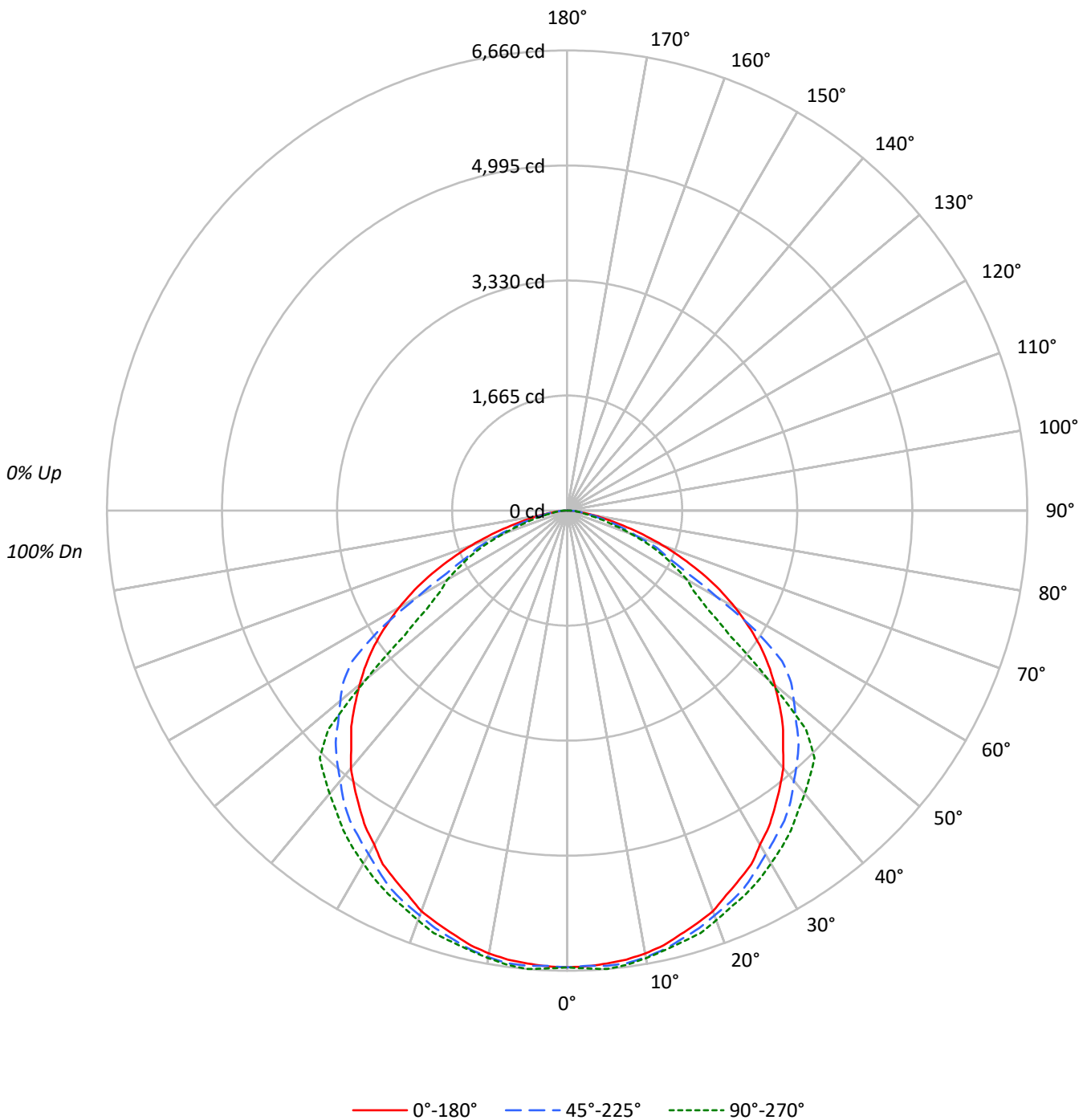
Lumens per Lamp: N/A  
Luminaire Lumens: 17904.0 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
Input Voltage (V):  
Input Current (A<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-LD5-18-W-CL-UNV-L850-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-CL-UNV-L850-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	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57		67	61	56		65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	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°	9704	9704	9704
5°	9687	9672	9720
10°	9680	9635	9617
15°	9617	9532	9538
20°	9594	9447	9480
25°	9492	9406	9438
30°	9395	9280	9404
35°	9310	9263	9402
40°	9229	9126	9389
45°	9056	9056	9477
50°	8819	8876	7665
55°	8561	8657	5483
60°	8067	6397	4952
65°	7293	4697	4304
70°	6121	3691	3235
75°	4536	2739	2159
80°	2954	1927	1349
85°	1547	1166	1009



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-CL-UNV-L850-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.0	3.5
10°-20°	1816.4	10.1
20°-30°	2780.8	15.5
30°-40°	3423.0	19.1
40°-50°	3627.9	20.3
50°-60°	2913.7	16.3
60°-70°	1810.9	10.1
70°-80°	745.2	4.2
80°-90°	156.1	0.9
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°	5227.2	29.2
0°-40°	8650.2	48.3
0°-60°	15191.8	84.9
0°-90°	17904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17904.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6611	6611	6611	6611	6611	
5°	6582	6598	6614	6649	6660	626
15°	6350	6439	6418	6460	6460	1795
25°	5895	5957	6041	6108	6124	2720
35°	5241	5370	5481	5618	5648	3282
45°	4417	4514	4738	4964	5063	3398
55°	3405	3556	3798	2711	2476	3031
65°	2156	2310	1602	1521	1529	2125
75°	837	770	638	571	536	918
85°	105	129	137	137	135	150
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-CL-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6611.3	6611.3	6611.3	6611.3	6611.3
2.5°	6600.5	6608.6	6595.1	6624.7	6632.8
5°	6581.7	6597.8	6614.0	6649.0	6659.7
7.5°	6554.7	6589.7	6608.6	6630.1	6630.1
10°	6509.0	6562.8	6562.8	6570.9	6576.3
12.5°	6444.4	6517.0	6503.6	6509.0	6517.0
15°	6350.2	6439.0	6417.5	6460.5	6460.5
17.5°	6261.3	6336.7	6339.4	6393.2	6412.1
20°	6169.8	6231.7	6237.1	6315.2	6309.8
22.5°	6021.7	6116.0	6142.9	6185.9	6207.5
25°	5895.2	5957.1	6040.6	6107.9	6124.0
27.5°	5774.1	5825.2	5892.5	6008.3	6021.7
30°	5583.0	5690.6	5747.2	5900.6	5897.9
32.5°	5432.2	5529.1	5609.9	5757.9	5779.5
35°	5241.1	5370.3	5480.7	5618.0	5647.6
37.5°	5055.4	5173.8	5311.1	5445.7	5486.1
40°	4866.9	4974.6	5106.5	5268.0	5348.8
42.5°	4624.7	4756.6	4928.8	5114.6	5206.1
45°	4417.4	4514.3	4737.7	4963.8	5063.4
47.5°	4167.0	4293.6	4490.1	4778.1	4686.6
50°	3919.4	4064.7	4285.5	4328.5	3792.9
52.5°	3674.4	3819.8	4086.3	3424.1	2966.5
55°	3405.2	3556.0	3798.2	2710.7	2476.5
57.5°	3111.8	3254.5	3233.0	2250.4	2169.7
60°	2807.6	2947.6	2503.5	1970.5	2005.5
62.5°	2492.7	2643.4	1965.1	1800.9	1747.0
65°	2156.2	2309.6	1601.7	1520.9	1529.0
67.5°	1806.3	1935.5	1405.2	1297.5	1270.6
70°	1475.2	1512.8	1063.3	1033.7	979.8
72.5°	1144.1	1095.6	845.3	780.6	724.1
75°	837.2	769.9	638.0	570.7	535.7
77.5°	581.4	533.0	460.3	484.5	358.0
80°	374.2	347.3	339.2	269.2	258.4
82.5°	220.7	218.0	210.0	193.8	188.4
85°	105.0	129.2	137.3	137.3	134.6
87.5°	37.7	64.6	86.1	91.5	96.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)