

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-CLWG-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 (P34178)  
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-CLWG-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUION  
  
Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

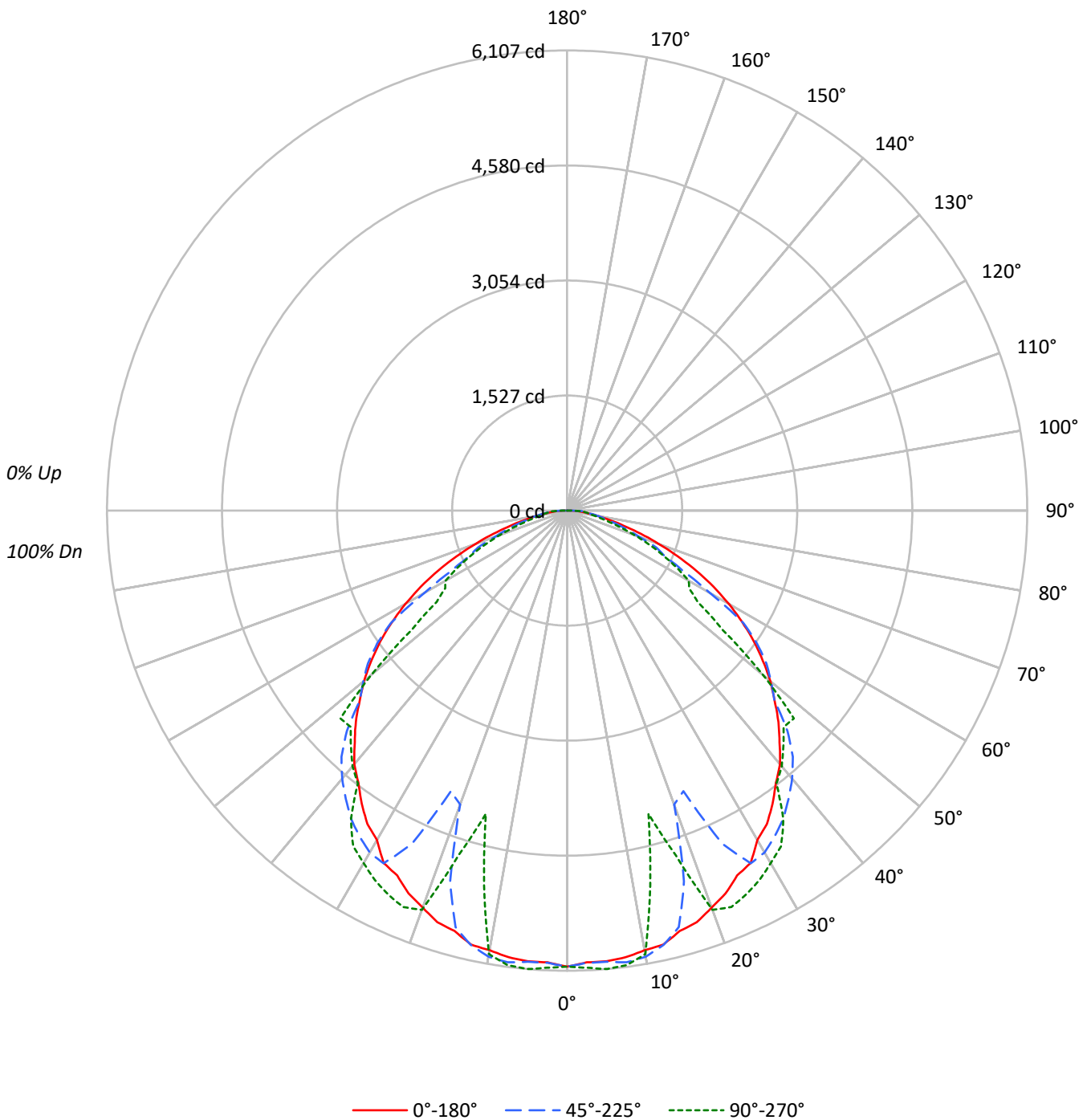
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15673.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
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 (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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72				72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52				52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46				46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40				40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35				35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31				31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28				28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26				26

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

	0°	45°	90°
0°	8884	8884	8884
5°	8838	8789	8913
10°	8812	8824	8738
15°	8748	8502	6151
20°	8719	6287	8472
25°	8599	7599	8664
30°	8493	8459	8615
35°	8439	8446	8331
40°	8334	8304	7776
45°	8133	7906	7602
50°	7918	7314	6870
55°	7608	7011	4678
60°	7122	5608	4602
65°	6406	4174	3965
70°	5369	3559	3147
75°	4207	2853	2317
80°	3202	2433	1768
85°	2897	2072	1772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.7	3.7
10°-20°	1523.1	9.7
20°-30°	2428.5	15.5
30°-40°	2914.8	18.6
40°-50°	3100.0	19.8
50°-60°	2536.1	16.2
60°-70°	1608.0	10.3
70°-80°	742.9	4.7
80°-90°	245.0	1.6
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°	4526.3	28.9
0°-40°	7441.1	47.5
0°-60°	13077.2	83.4
0°-90°	15673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6052	6052	6052	6052	6052	
5°	6005	6008	6010	6058	6107	571
15°	5776	5866	5724	4510	4166	1637
25°	5341	5356	4880	5572	5622	2474
35°	4751	3561	4997	5092	5005	2969
45°	3967	3984	4136	4034	4062	3056
55°	3026	3186	3076	2384	2113	2695
65°	1894	1926	1424	1434	1409	1867
75°	776	737	664	615	575	851
85°	197	214	244	244	236	212
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6052.5	6052.5	6052.5	6052.5	6052.5
2.5°	6000.2	6010.2	6007.7	6052.5	6072.4
5°	6005.2	6007.7	6010.2	6057.5	6107.2
7.5°	5977.8	6030.1	6047.5	6030.1	6082.4
10°	5925.6	5972.8	6010.2	5957.9	5975.3
12.5°	5898.2	5967.9	5905.7	5649.3	5091.9
15°	5776.2	5865.8	5724.0	4509.5	4166.1
17.5°	5726.5	5786.2	5159.0	4146.2	4795.7
20°	5607.0	5689.1	4151.1	5330.8	5639.4
22.5°	5497.5	5557.2	4029.2	5607.0	5694.1
25°	5340.7	5355.7	4880.3	5572.2	5621.9
27.5°	5273.5	5049.5	5278.5	5500.0	5527.4
30°	5047.1	4586.7	5238.7	5400.5	5402.9
32.5°	4932.6	3994.3	5126.7	5256.1	5283.5
35°	4750.9	3561.3	4997.3	5091.9	5004.8
37.5°	4551.8	3499.1	4825.6	4775.8	4564.3
40°	4395.0	3817.6	4646.4	4337.8	4429.9
42.5°	4173.5	4011.8	4432.4	4230.8	4248.2
45°	3967.0	3984.4	4136.2	4034.2	4061.5
47.5°	3733.0	3847.5	3730.5	3864.9	4081.4
50°	3519.0	3640.9	3531.4	3752.9	3399.5
52.5°	3275.1	3426.9	3334.8	3018.8	2608.1
55°	3026.2	3185.5	3076.0	2384.2	2112.9
57.5°	2755.0	2886.9	2772.4	1953.6	1918.8
60°	2478.7	2583.3	2195.0	1779.4	1864.0
62.5°	2187.6	2252.3	1732.1	1640.0	1635.1
65°	1893.9	1926.2	1423.5	1433.5	1408.6
67.5°	1587.8	1602.7	1281.7	1214.5	1177.1
70°	1294.1	1284.2	1025.3	988.0	953.2
72.5°	1025.3	978.1	833.7	783.9	741.6
75°	776.5	736.7	664.5	614.7	574.9
77.5°	577.4	555.0	520.1	525.1	440.5
80°	405.7	408.1	428.1	363.3	338.5
82.5°	281.2	296.2	306.1	301.1	293.7
85°	196.6	214.0	243.9	243.9	236.4
87.5°	99.5	146.8	196.6	209.0	204.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)