

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-LD5-22-N-TWBWG-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-N-TWBWG-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION  
  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

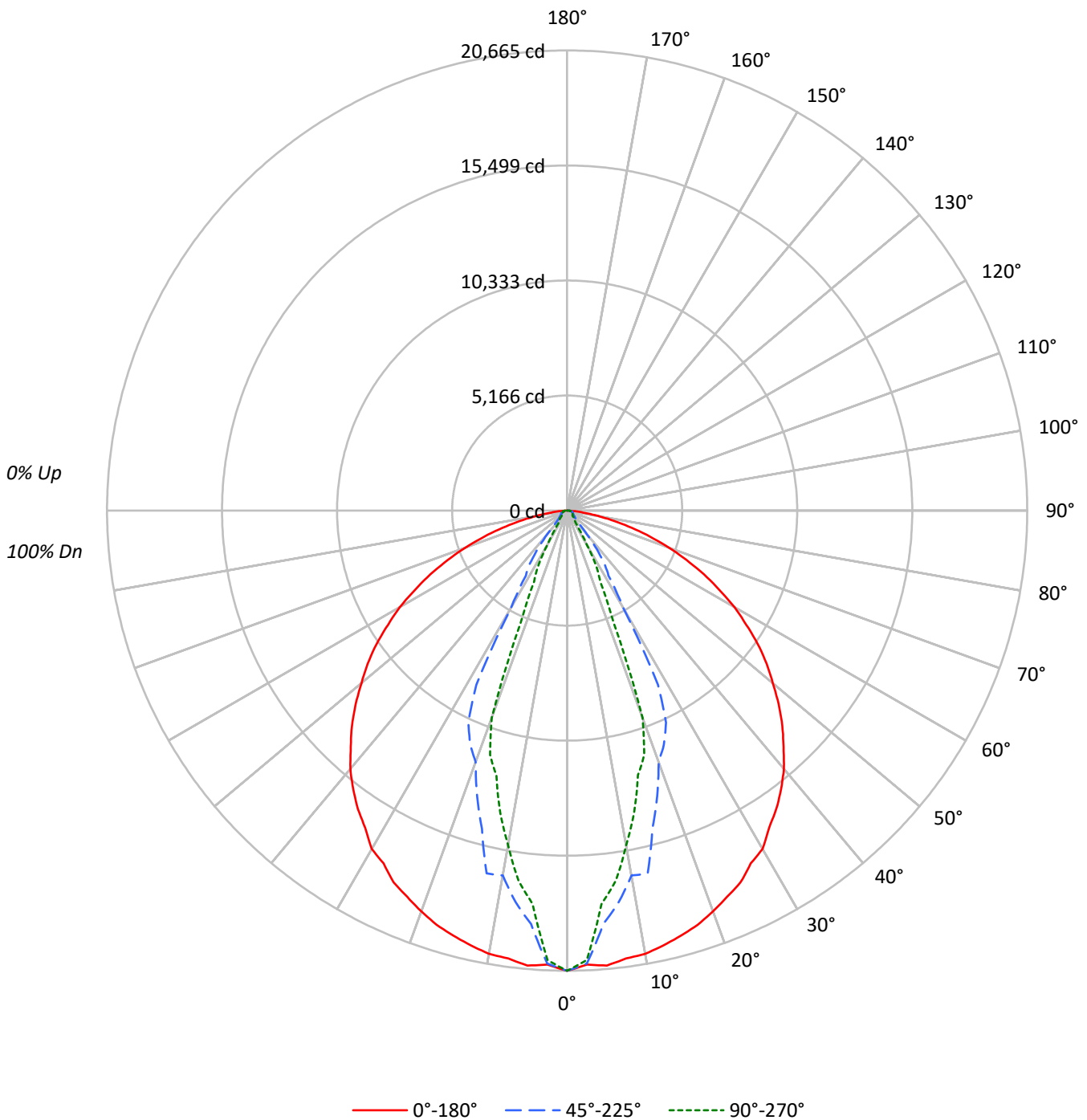
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20517.0 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 167.7  
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



TEST NUMBER: P#  
CATALOG NUMBER: 8ILED-LD5-22-N-TWBWG-UNV-L850-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-N-TWBWG-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	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40

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

	0°	45°	90°
0°	30333	30333	30333
5°	30186	27257	25890
10°	30056	24434	22341
15°	29925	21977	18155
20°	29779	18193	14873
25°	29672	16356	5410
30°	29530	8152	2820
35°	29086	4935	1074
40°	28725	2469	936
45°	28022	1071	693
50°	27133	907	631
55°	26272	758	662
60°	24944	789	645
65°	22921	856	659
70°	20143	896	684
75°	16280	991	752
80°	11201	1177	833
85°	6304	1413	1043



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-N-TWBWG-UNV-L850-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1765.2	8.6
10°-20°	4279.4	20.9
20°-30°	4661.8	22.7
30°-40°	3586.2	17.5
40°-50°	2649.7	12.9
50°-60°	1667.2	8.1
60°-70°	1091.7	5.3
70°-80°	611.2	3.0
80°-90°	204.7	1.0
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°	10706.4	52.2
0°-40°	14292.5	69.7
0°-60°	18609.5	90.7
0°-90°	20517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20517.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20665	20665	20665	20665	20665	
5°	20509	20350	18639	17539	17739	###
15°	19759	17179	14796	12843	12297	5579
25°	18428	13770	10504	4678	3510	8472
35°	16374	10148	2920	930	645	10240
45°	13668	5405	560	472	370	10526
55°	10450	1385	333	350	299	9310
65°	6776	343	292	261	234	6683
75°	3005	258	231	207	187	3224
85°	428	163	166	160	139	545
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-N-TWBWG-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20665.4	20665.4	20665.4	20665.4	20665.4
2.5°	20410.8	20417.6	20366.7	20264.8	20200.3
5°	20509.3	20349.7	18638.6	17538.6	17738.9
7.5°	20285.2	19460.2	17738.9	16917.3	16757.8
10°	20210.5	18095.4	16642.3	16363.9	15277.5
12.5°	19996.6	17267.0	16693.3	14938.0	13895.8
15°	19759.0	17178.7	14795.5	12843.3	12296.7
17.5°	19500.9	16404.7	13444.2	11770.5	11509.1
20°	19151.2	15909.0	12011.5	10819.9	9899.8
22.5°	18774.4	15671.4	11363.1	7051.4	5466.0
25°	18428.1	13770.2	10504.2	4678.3	3510.4
27.5°	17857.7	13617.4	8823.6	3425.6	2895.9
30°	17548.8	12205.1	5048.4	2576.8	1768.8
32.5°	16880.0	11098.3	3456.1	1565.1	1055.8
35°	16374.1	10147.7	2919.7	930.2	645.1
37.5°	15780.0	9519.6	2183.0	638.3	560.2
40°	15148.5	8779.5	1381.8	570.4	533.0
42.5°	14381.3	7907.0	818.2	536.4	458.3
45°	13668.3	5404.9	560.2	471.9	370.1
47.5°	12880.7	3687.0	478.7	400.6	319.1
50°	12059.1	2410.5	438.0	356.5	312.3
52.5°	11288.4	1975.9	380.2	356.5	312.3
55°	10449.8	1385.2	332.7	349.7	298.8
57.5°	9529.8	862.3	312.3	339.5	288.6
60°	8681.0	509.3	308.9	329.3	261.4
62.5°	7689.7	387.0	302.2	292.0	247.8
65°	6776.4	342.9	292.0	261.4	234.3
67.5°	5795.3	308.9	271.6	251.2	227.5
70°	4854.9	278.4	258.0	234.3	207.1
72.5°	3911.1	268.2	244.4	220.7	196.9
75°	3004.6	258.0	230.9	207.1	186.7
77.5°	2186.4	241.0	217.3	200.3	176.5
80°	1419.1	220.7	207.1	186.7	159.6
82.5°	791.0	200.3	190.1	173.1	152.8
85°	427.8	163.0	166.4	159.6	139.2
87.5°	78.1	115.4	142.6	139.2	122.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)