

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-W-TWBWG-UNV-L835-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 (P34176)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-W-TWBWG-UNV-L835-CD2-U  
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD  
DISTRIBUION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

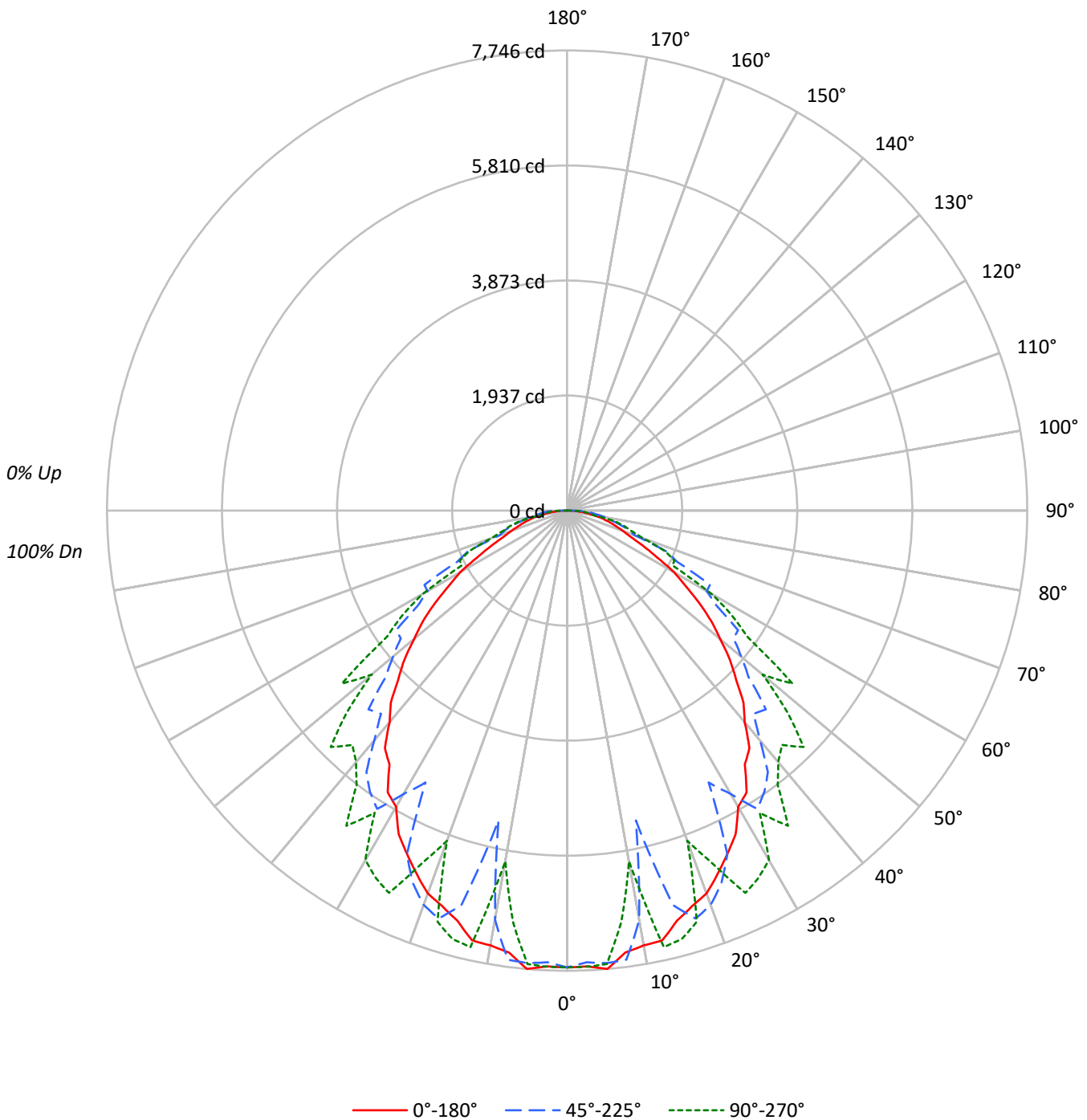
Lumens per Lamp: N/A  
Luminaire Lumens: 18682.0 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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-W-TWBWG-UNV-L835-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-TWBWG-UNV-L835-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	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	55		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	49	40	34	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°	11286	11286	11286
5°	11400	11179	11183
10°	11053	10273	8763
15°	10823	10212	11022
20°	10662	10697	8882
25°	10268	9935	10945
30°	9687	8891	10829
35°	9268	9775	10785
40°	8813	9020	9698
45°	8245	9044	10535
50°	7567	7923	8681
55°	6813	8004	8185
60°	5971	6924	6920
65°	4790	5980	5614
70°	4119	4161	4459
75°	3909	3994	3965
80°	3600	3761	2351
85°	3339	3393	2234



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-TWBWG-UNV-L835-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.2	3.8
10°-20°	1967.4	10.5
20°-30°	2844.2	15.2
30°-40°	3562.1	19.1
40°-50°	3467.5	18.6
50°-60°	2968.1	15.9
60°-70°	1841.3	9.9
70°-80°	958.1	5.1
80°-90°	372.2	2.0
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°	5512.8	29.5
0°-40°	9074.9	48.6
0°-60°	15510.5	83.0
0°-90°	18682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7689	7689	7689	7689	7689	
5°	7746	7722	7644	7614	7662	723
15°	7146	7173	6875	7504	7465	2023
25°	6377	5286	6380	6559	7102	2931
35°	5217	5438	5784	5736	6478	3297
45°	4022	3610	4731	4839	5629	3111
55°	2710	2966	3512	4192	3697	2424
65°	1416	1589	2039	1726	1994	1437
75°	722	838	930	999	984	764
85°	227	301	400	459	298	243
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-22-W-TWBWG-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7688.9	7688.9	7688.9	7688.9	7688.9
2.5°	7679.9	7647.1	7611.4	7674.0	7685.9
5°	7745.5	7721.7	7644.2	7614.3	7662.0
7.5°	7504.0	7554.7	7626.3	7238.7	6988.3
10°	7432.5	7405.7	6997.2	5387.3	5992.5
12.5°	7408.6	7375.8	5342.6	7489.1	7524.9
15°	7146.3	7173.1	6875.0	7504.0	7465.3
17.5°	6985.3	6615.6	7199.9	7325.2	7256.6
20°	6857.1	5765.9	7062.8	6728.9	5912.0
22.5°	6621.6	4916.2	6788.5	5399.2	6448.6
25°	6377.1	5285.9	6380.1	6559.0	7101.6
27.5°	6141.6	5989.5	5160.7	6845.2	6973.4
30°	5757.0	5938.8	5506.5	6702.1	6791.5
32.5°	5622.8	5670.5	5953.7	6329.4	6031.3
35°	5217.3	5438.0	5783.8	5736.1	6478.5
37.5°	5038.5	5101.1	5551.3	6040.2	5819.6
40°	4647.9	4743.3	5047.4	5336.6	5524.4
42.5°	4394.5	4075.5	4639.0	5172.6	5351.5
45°	4021.8	3610.4	4731.4	4838.7	5628.8
47.5°	3717.7	3586.6	4141.1	5035.5	5035.5
50°	3363.0	3535.9	3825.1	4498.8	4296.1
52.5°	3058.9	3294.4	3529.9	3911.5	4785.1
55°	2710.0	2966.4	3512.0	4191.8	3696.9
57.5°	2367.2	2584.8	2981.3	3210.9	3297.4
60°	2078.0	2289.7	2710.0	2885.9	2802.5
62.5°	1705.3	1973.6	2710.0	2274.8	1994.5
65°	1416.1	1589.1	2039.2	1726.2	1994.5
67.5°	1162.7	1341.6	1812.7	1666.6	1776.9
70°	992.8	1121.0	1198.5	1490.7	1350.5
72.5°	849.7	942.1	1097.1	1126.9	1121.0
75°	721.5	837.8	930.2	998.7	983.8
77.5°	599.2	763.2	766.2	918.3	799.0
80°	456.1	521.7	661.9	599.2	450.2
82.5°	333.9	408.4	503.8	518.8	396.5
85°	226.6	301.1	399.5	459.1	298.1
87.5°	104.3	205.7	325.0	411.4	271.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)