

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-LD5-10-W-CLWG-UNV-L840-CD1-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-LD5-10-W-CLWG-UNV-L840-CD1-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**

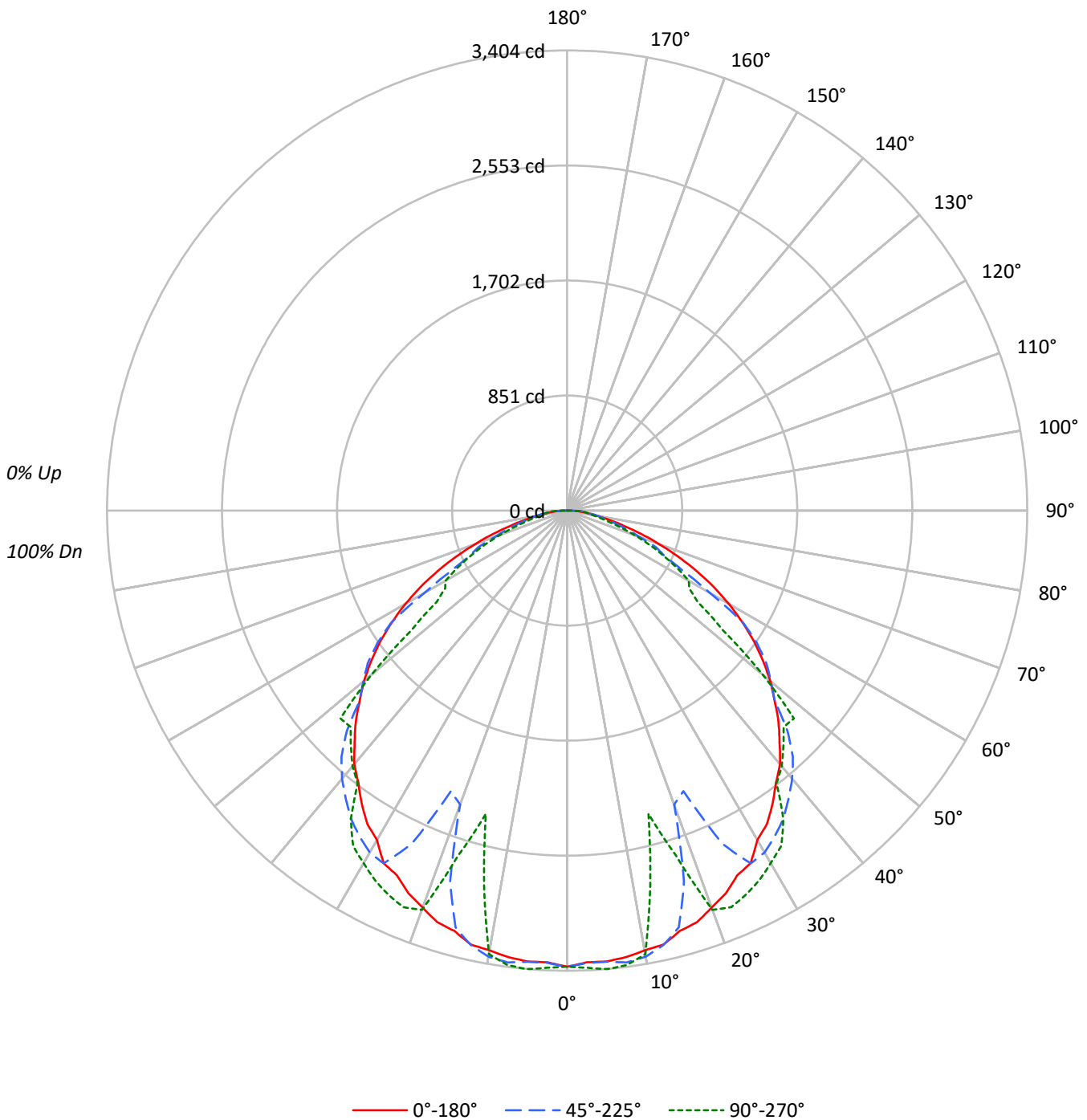
Lumens per Lamp: N/A  
Luminaire Lumens: 8737.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 67  
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	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°	4952	4952	4952
5°	4927	4900	4969
10°	4912	4919	4871
15°	4877	4740	3429
20°	4860	3505	4723
25°	4794	4236	4830
30°	4734	4715	4802
35°	4704	4708	4644
40°	4646	4629	4335
45°	4534	4407	4238
50°	4414	4078	3830
55°	4241	3908	2608
60°	3970	3126	2566
65°	3571	2327	2210
70°	2993	1984	1754
75°	2345	1590	1292
80°	1785	1356	985
85°	1615	1155	988



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.3	3.7
10°-20°	849.1	9.7
20°-30°	1353.8	15.5
30°-40°	1624.9	18.6
40°-50°	1728.1	19.8
50°-60°	1413.8	16.2
60°-70°	896.4	10.3
70°-80°	414.1	4.7
80°-90°	136.6	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°	2523.2	28.9
0°-40°	4148.1	47.5
0°-60°	7289.9	83.4
0°-90°	8737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3374	3374	3374	3374	3374	
5°	3348	3349	3350	3377	3404	318
15°	3220	3270	3191	2514	2322	913
25°	2977	2986	2721	3106	3134	1379
35°	2648	1985	2786	2838	2790	1655
45°	2211	2221	2306	2249	2264	1703
55°	1687	1776	1715	1329	1178	1502
65°	1056	1074	794	799	785	1041
75°	433	411	370	343	320	474
85°	110	119	136	136	132	118
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3374.0	3374.0	3374.0	3374.0	3374.0
2.5°	3344.9	3350.4	3349.0	3374.0	3385.1
5°	3347.6	3349.0	3350.4	3376.8	3404.5
7.5°	3332.4	3361.5	3371.2	3361.5	3390.6
10°	3303.2	3329.6	3350.4	3321.3	3331.0
12.5°	3288.0	3326.8	3292.1	3149.2	2838.5
15°	3220.0	3269.9	3190.9	2513.8	2322.4
17.5°	3192.3	3225.5	2875.9	2311.3	2673.4
20°	3125.7	3171.4	2314.1	2971.7	3143.7
22.5°	3064.6	3097.9	2246.1	3125.7	3174.2
25°	2977.2	2985.5	2720.6	3106.2	3134.0
27.5°	2939.8	2814.9	2942.5	3066.0	3081.3
30°	2813.5	2556.9	2920.3	3010.5	3011.9
32.5°	2749.7	2226.7	2857.9	2930.0	2945.3
35°	2648.4	1985.3	2785.8	2838.5	2789.9
37.5°	2537.4	1950.6	2690.0	2662.3	2544.4
40°	2450.0	2128.2	2590.1	2418.1	2469.5
42.5°	2326.6	2236.4	2470.8	2358.5	2368.2
45°	2211.4	2221.1	2305.7	2248.9	2264.1
47.5°	2081.0	2144.8	2079.6	2154.5	2275.2
50°	1961.7	2029.7	1968.6	2092.1	1895.1
52.5°	1825.7	1910.4	1859.0	1682.8	1453.9
55°	1687.0	1775.8	1714.7	1329.1	1177.8
57.5°	1535.8	1609.3	1545.5	1089.1	1069.6
60°	1381.8	1440.1	1223.6	991.9	1039.1
62.5°	1219.5	1255.5	965.6	914.3	911.5
65°	1055.8	1073.8	793.6	799.1	785.2
67.5°	885.1	893.4	714.5	677.0	656.2
70°	721.4	715.9	571.6	550.8	531.3
72.5°	571.6	545.2	464.8	437.0	413.4
75°	432.8	410.7	370.4	342.7	320.5
77.5°	321.9	309.4	290.0	292.7	245.6
80°	226.1	227.5	238.6	202.6	188.7
82.5°	156.8	165.1	170.6	167.9	163.7
85°	109.6	119.3	136.0	136.0	131.8
87.5°	55.5	81.9	109.6	116.5	113.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)