

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: **4ILED-LD5-7-W-CL-UNV-L835-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 (P34177)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-7-W-CL-UNV-L835-CD1-U  
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

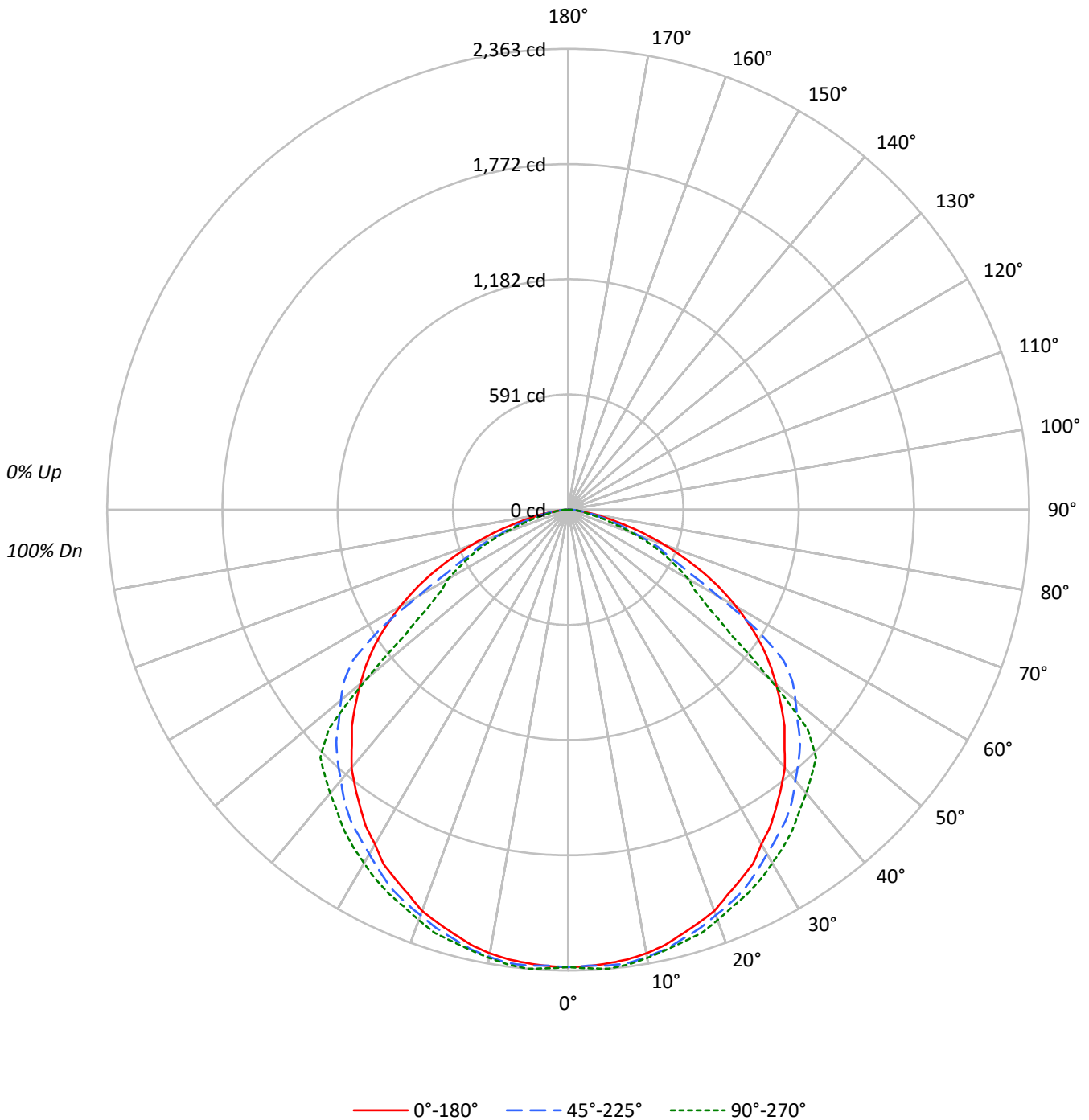
Lumens per Lamp: N/A  
Luminaire Lumens: 6353.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 50.4  
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



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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	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°	6887	6887	6887
5°	6867	6859	6898
10°	6854	6827	6825
15°	6803	6749	6769
20°	6778	6683	6727
25°	6697	6649	6698
30°	6620	6554	6674
35°	6550	6535	6672
40°	6482	6432	6663
45°	6348	6375	6725
50°	6168	6240	5439
55°	5971	6075	3891
60°	5607	4480	3514
65°	5044	3281	3054
70°	4204	2569	2296
75°	3082	1897	1532
80°	1966	1324	958
85°	977	787	717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.6	3.5
10°-20°	644.5	10.1
20°-30°	986.7	15.5
30°-40°	1214.6	19.1
40°-50°	1287.3	20.3
50°-60°	1033.9	16.3
60°-70°	642.6	10.1
70°-80°	264.4	4.2
80°-90°	55.4	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°	1854.8	29.2
0°-40°	3069.4	48.3
0°-60°	5390.6	84.9
0°-90°	6353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2335	2341	2347	2359	2363	222
15°	2253	2285	2277	2292	2292	637
25°	2092	2114	2143	2167	2173	965
35°	1860	1906	1945	1994	2004	1165
45°	1567	1602	1681	1761	1797	1206
55°	1208	1262	1348	962	879	1075
65°	765	820	568	540	542	754
75°	297	273	226	202	190	326
85°	37	46	49	49	48	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2342.1	2345.0	2340.2	2350.7	2353.6
5°	2335.4	2341.1	2346.9	2359.3	2363.1
7.5°	2325.9	2338.3	2345.0	2352.6	2352.6
10°	2309.6	2328.7	2328.7	2331.6	2333.5
12.5°	2286.7	2312.5	2307.7	2309.6	2312.5
15°	2253.3	2284.8	2277.1	2292.4	2292.4
17.5°	2221.7	2248.5	2249.4	2268.6	2275.2
20°	2189.3	2211.2	2213.2	2240.9	2238.9
22.5°	2136.7	2170.2	2179.7	2195.0	2202.6
25°	2091.8	2113.8	2143.4	2167.3	2173.0
27.5°	2048.9	2067.0	2090.9	2132.0	2136.7
30°	1981.0	2019.2	2039.3	2093.8	2092.8
32.5°	1927.6	1961.9	1990.6	2043.1	2050.8
35°	1859.7	1905.6	1944.7	1993.5	2004.0
37.5°	1793.8	1835.9	1884.6	1932.3	1946.7
40°	1727.0	1765.2	1812.0	1869.3	1897.9
42.5°	1641.0	1687.8	1748.9	1814.8	1847.3
45°	1567.4	1601.8	1681.1	1761.4	1796.7
47.5°	1478.6	1523.5	1593.2	1695.4	1663.0
50°	1390.7	1442.3	1520.6	1535.9	1345.8
52.5°	1303.8	1355.4	1450.0	1215.0	1052.6
55°	1208.3	1261.8	1347.8	961.9	878.8
57.5°	1104.2	1154.8	1147.2	798.5	769.9
60°	996.3	1045.9	888.3	699.2	711.6
62.5°	884.5	938.0	697.3	639.0	619.9
65°	765.1	819.5	568.3	539.7	542.5
67.5°	640.9	686.8	498.6	460.4	450.8
70°	523.4	536.8	377.3	366.8	347.7
72.5°	406.0	388.8	299.9	277.0	256.9
75°	297.1	273.2	226.4	202.5	190.1
77.5°	206.3	189.1	163.3	171.9	127.0
80°	132.8	123.2	120.4	95.5	91.7
82.5°	78.3	77.4	74.5	68.8	66.9
85°	37.3	45.8	48.7	48.7	47.8
87.5°	13.4	22.9	30.6	32.5	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)