

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-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: 4ILED-LD5-7-W-CLWG-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

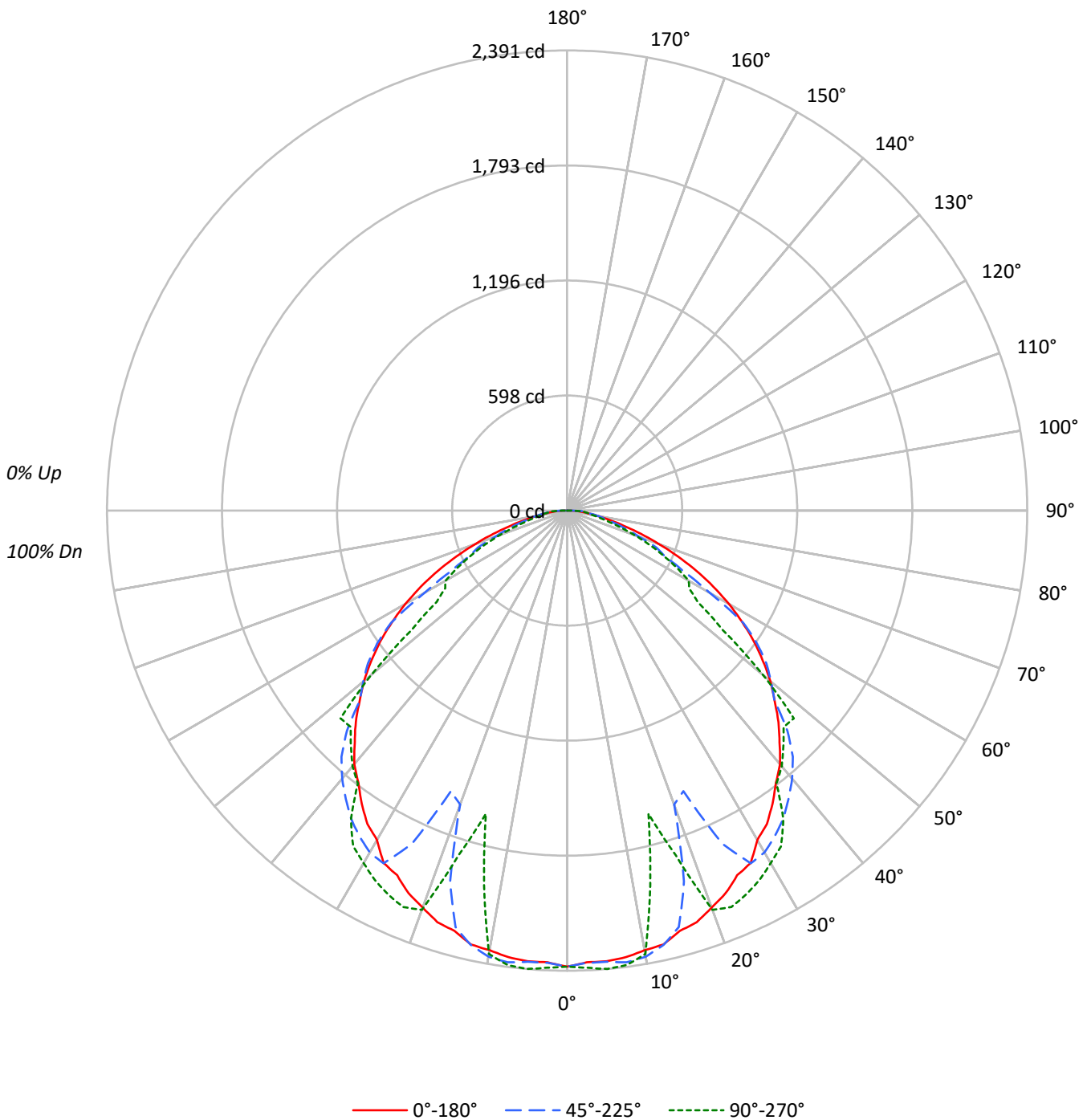
Lumens per Lamp: N/A
Luminaire Lumens: 6136.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
Input Voltage (V):
Input Current (A_{in}): 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°	6956	6956	6956
5°	6913	6877	6979
10°	6885	6899	6842
15°	6827	6642	4816
20°	6796	4908	6634
25°	6695	5927	6784
30°	6603	6592	6745
35°	6551	6575	6524
40°	6459	6457	6089
45°	6291	6140	5952
50°	6110	5673	5379
55°	5855	5429	3663
60°	5461	4334	3604
65°	4889	3217	3105
70°	4069	2733	2465
75°	3154	2179	1814
80°	2351	1843	1384
85°	2017	1544	1388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	3.7
10°-20°	596.3	9.7
20°-30°	950.8	15.5
30°-40°	1141.2	18.6
40°-50°	1213.6	19.8
50°-60°	992.9	16.2
60°-70°	629.5	10.3
70°-80°	290.8	4.7
80°-90°	95.9	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°	1772.0	28.9
0°-40°	2913.2	47.5
0°-60°	5119.7	83.4
0°-90°	6136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2370	2370	2370	2370	2370	
5°	2351	2352	2353	2372	2391	223
15°	2261	2296	2241	1766	1631	641
25°	2091	2097	1911	2182	2201	969
35°	1860	1394	1956	1994	1959	1162
45°	1553	1560	1619	1579	1590	1196
55°	1185	1247	1204	933	827	1055
65°	742	754	557	561	552	731
75°	304	288	260	241	225	333
85°	77	84	96	96	93	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2369.6	2369.6	2369.6	2369.6	2369.6
2.5°	2349.1	2353.0	2352.0	2369.6	2377.4
5°	2351.0	2352.0	2353.0	2371.5	2391.0
7.5°	2340.3	2360.8	2367.6	2360.8	2381.2
10°	2319.9	2338.4	2353.0	2332.5	2339.4
12.5°	2309.1	2336.4	2312.1	2211.7	1993.5
15°	2261.4	2296.5	2240.9	1765.5	1631.0
17.5°	2241.9	2265.3	2019.8	1623.2	1877.5
20°	2195.2	2227.3	1625.2	2087.0	2207.8
22.5°	2152.3	2175.7	1577.4	2195.2	2229.3
25°	2090.9	2096.7	1910.6	2181.5	2201.0
27.5°	2064.6	1976.9	2066.5	2153.3	2164.0
30°	1975.9	1795.7	2051.0	2114.3	2115.3
32.5°	1931.1	1563.8	2007.1	2057.8	2068.5
35°	1860.0	1394.3	1956.4	1993.5	1959.4
37.5°	1782.0	1369.9	1889.2	1869.7	1786.9
40°	1720.7	1494.6	1819.1	1698.2	1734.3
42.5°	1633.9	1570.6	1735.3	1656.4	1663.2
45°	1553.1	1559.9	1619.3	1579.4	1590.1
47.5°	1461.5	1506.3	1460.5	1513.1	1597.9
50°	1377.7	1425.4	1382.6	1469.3	1330.9
52.5°	1282.2	1341.6	1305.6	1181.9	1021.1
55°	1184.8	1247.1	1204.3	933.4	827.2
57.5°	1078.6	1130.2	1085.4	764.8	751.2
60°	970.4	1011.3	859.4	696.6	729.8
62.5°	856.4	881.8	678.1	642.1	640.1
65°	741.5	754.1	557.3	561.2	551.5
67.5°	621.6	627.5	501.8	475.5	460.9
70°	506.6	502.8	401.4	386.8	373.2
72.5°	401.4	382.9	326.4	306.9	290.3
75°	304.0	288.4	260.1	240.7	225.1
77.5°	226.0	217.3	203.6	205.6	172.5
80°	158.8	159.8	167.6	142.3	132.5
82.5°	110.1	115.9	119.8	117.9	115.0
85°	77.0	83.8	95.5	95.5	92.6
87.5°	39.0	57.5	77.0	81.8	79.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)