

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709366

Luminaire Tested: DL2W-WB-M-0U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709366
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-0U-075D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.5 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

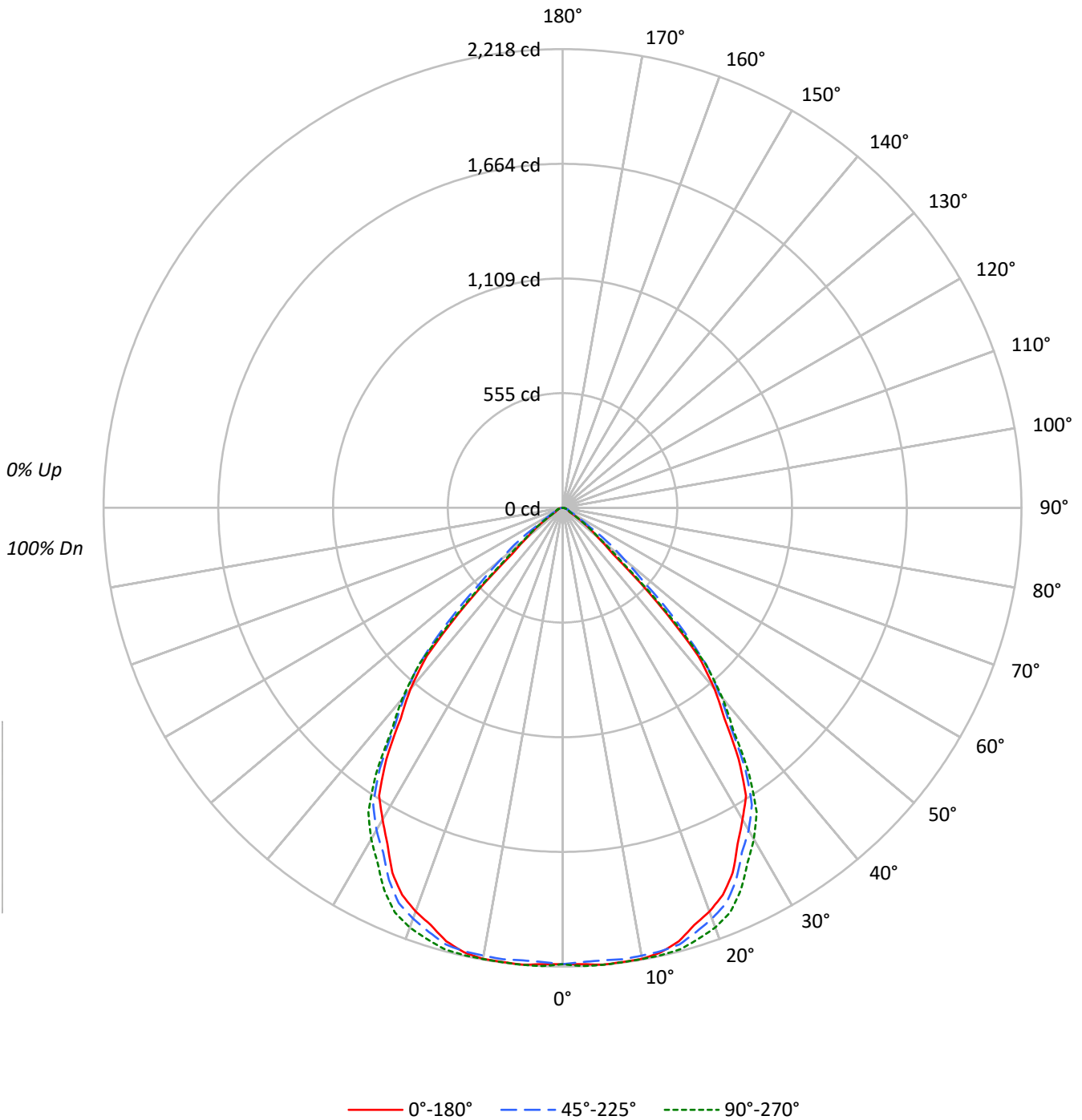
Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75				
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68				
5	87	77	70	65	85	76	70	65	74	69	65	73	68	64	71	67	63	62				
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35626	35626	35626	35626	35626
5°	35934	35594	35950	35594	35934
10°	36297	36050	36315	36050	36297
15°	36264	36526	36918	36526	36264
20°	35677	36307	37094	36307	35677
25°	34673	35368	36332	35368	34673
30°	32421	33538	34472	33538	32421
35°	29250	30347	31003	30347	29250
40°	24078	24989	25417	24989	24078
45°	14926	17996	15892	17996	14926
50°	5687	9849	6217	9849	5687
55°	3037	4569	3068	4569	3037
60°	1298	2220	1434	2220	1298
65°	1211	1360	1291	1360	1211
70°	1199	1293	1246	1293	1199
75°	1123	1248	1254	1248	1123
80°	1079	1190	1181	1190	1079
85°	982	1000	1167	1000	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 18091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	6.1
10°-20°	616.9	17.9
20°-30°	912.1	26.4
30°-40°	943.7	27.3
40°-50°	567.7	16.4
50°-60°	135.7	3.9
60°-70°	37.1	1.1
70°-80°	20.8	0.6
80°-90°	6.5	0.2
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°	1739.9	50.4
0°-40°	2683.7	77.8
0°-60°	3387.0	98.1
0°-90°	3451.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2206	2206	2206	2206	2206	
5°	2217	2196	2218	2196	2217	211
15°	2170	2185	2209	2185	2170	609
25°	1946	1985	2039	1985	1946	888
35°	1484	1540	1573	1540	1484	912
45°	654	788	696	788	654	500
55°	108	162	109	162	108	104
65°	32	36	34	36	32	32
75°	18	20	20	20	18	19
85°	5	5	6	5	5	6
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
2.5°	2208.2	2210.1	2212.0	2206.2	2197.9	2197.8	2205.7	2212.2	2214.9	2217.5	2214.9
5°	2217.1	2218.5	2219.9	2210.4	2197.2	2195.1	2204.0	2211.6	2214.8	2218.1	2214.8
7.5°	2214.8	2216.9	2219.1	2212.1	2202.2	2200.6	2207.5	2213.0	2214.4	2215.8	2214.4
10°	2213.9	2215.3	2216.7	2209.3	2199.0	2198.7	2208.6	2215.9	2215.4	2215.0	2215.4
12.5°	2201.2	2204.5	2207.8	2202.6	2194.5	2197.6	2212.0	2221.8	2218.0	2214.1	2218.0
15°	2169.5	2174.2	2178.9	2180.1	2180.1	2190.2	2210.4	2223.7	2216.1	2208.6	2216.1
17.5°	2115.3	2121.1	2126.8	2133.7	2140.9	2158.0	2185.0	2203.0	2194.1	2185.1	2194.1
20°	2076.4	2078.7	2081.1	2090.5	2102.3	2123.9	2155.4	2176.8	2167.8	2158.9	2167.8
22.5°	2025.6	2029.5	2033.3	2044.0	2056.8	2080.2	2113.9	2136.8	2127.1	2117.4	2127.1
25°	1946.3	1951.5	1956.6	1965.0	1974.4	1996.2	2030.6	2054.4	2046.9	2039.4	2046.9
27.5°	1832.1	1839.2	1846.3	1856.2	1866.9	1888.3	1920.5	1943.6	1939.4	1935.3	1939.4
30°	1739.0	1750.3	1761.5	1774.9	1789.0	1808.8	1834.2	1852.7	1850.9	1849.0	1850.9
32.5°	1650.1	1659.1	1668.2	1680.4	1693.8	1711.7	1734.0	1750.3	1748.5	1746.6	1748.5
35°	1484.0	1493.5	1502.9	1516.8	1532.4	1546.9	1560.6	1571.0	1572.0	1572.9	1572.0
37.5°	1285.4	1294.9	1304.4	1315.9	1328.2	1339.7	1350.5	1358.3	1357.0	1355.6	1357.0
40°	1142.4	1144.7	1147.1	1161.1	1178.9	1192.3	1201.3	1207.7	1206.8	1205.9	1206.8
42.5°	971.5	982.5	993.5	1006.5	1020.2	1033.3	1045.6	1051.3	1037.2	1023.1	1037.2
45°	653.7	698.8	744.0	767.6	784.0	792.3	792.3	781.6	738.8	696.0	738.8
47.5°	328.8	383.6	438.4	488.8	537.7	548.9	522.5	490.5	441.8	393.1	441.8
50°	226.4	244.7	263.0	318.4	386.1	398.1	354.4	313.3	280.4	247.5	280.4
52.5°	166.3	176.0	185.6	230.9	288.1	293.7	247.7	209.1	192.3	175.6	192.3
55°	107.9	111.7	115.4	135.7	161.6	163.0	140.0	121.2	115.1	109.0	115.1
57.5°	65.6	71.5	77.4	85.7	94.7	94.7	85.7	77.3	71.0	64.7	71.0
60°	40.2	45.4	50.5	58.9	68.3	69.2	61.7	54.8	49.6	44.4	49.6
62.5°	36.8	38.6	40.4	46.5	54.0	54.6	48.2	42.8	40.7	38.5	40.7
65°	31.7	32.7	33.6	34.6	35.5	35.7	35.3	34.8	34.3	33.8	34.3
67.5°	27.9	28.8	29.6	29.9	30.0	30.2	30.6	30.8	30.3	29.8	30.3
70°	25.4	25.9	26.3	26.8	27.3	27.5	27.5	27.4	26.9	26.4	26.9
72.5°	22.0	22.8	23.7	24.0	24.1	24.3	24.7	24.8	24.4	23.9	24.4
75°	18.0	18.5	18.9	19.4	19.9	20.1	20.1	20.1	20.1	20.1	20.1
77.5°	14.2	14.6	15.1	15.2	15.2	15.5	15.9	16.2	15.7	15.2	15.7
80°	11.6	12.1	12.6	12.7	12.7	12.9	13.4	13.6	13.2	12.7	13.2
82.5°	9.1	9.6	10.0	10.2	10.2	10.2	10.3	10.3	10.2	10.2	10.2
85°	5.3	5.3	5.3	5.3	5.3	5.5	6.0	6.3	6.3	6.3	6.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.9	2.3	2.4	2.1	1.7	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5	2206.5
2.5°	2212.2	2205.7	2197.8	2197.9	2206.2	2212.0	2210.1	2208.2
5°	2211.6	2204.0	2195.1	2197.2	2210.4	2219.9	2218.5	2217.1
7.5°	2213.0	2207.5	2200.6	2202.2	2212.1	2219.1	2216.9	2214.8
10°	2215.9	2208.6	2198.7	2199.0	2209.3	2216.7	2215.3	2213.9
12.5°	2221.8	2212.0	2197.6	2194.5	2202.6	2207.8	2204.5	2201.2
15°	2223.7	2210.4	2190.2	2180.1	2180.1	2178.9	2174.2	2169.5
17.5°	2203.0	2185.0	2158.0	2140.9	2133.7	2126.8	2121.1	2115.3
20°	2176.8	2155.4	2123.9	2102.3	2090.5	2081.1	2078.7	2076.4
22.5°	2136.8	2113.9	2080.2	2056.8	2044.0	2033.3	2029.5	2025.6
25°	2054.4	2030.6	1996.2	1974.4	1965.0	1956.6	1951.5	1946.3
27.5°	1943.6	1920.5	1888.3	1866.9	1856.2	1846.3	1839.2	1832.1
30°	1852.7	1834.2	1808.8	1789.0	1774.9	1761.5	1750.3	1739.0
32.5°	1750.3	1734.0	1711.7	1693.8	1680.4	1668.2	1659.1	1650.1
35°	1571.0	1560.6	1546.9	1532.4	1516.8	1502.9	1493.5	1484.0
37.5°	1358.3	1350.5	1339.7	1328.2	1315.9	1304.4	1294.9	1285.4
40°	1207.7	1201.3	1192.3	1178.9	1161.1	1147.1	1144.7	1142.4
42.5°	1051.3	1045.6	1033.3	1020.2	1006.5	993.5	982.5	971.5
45°	781.6	792.3	792.3	784.0	767.6	744.0	698.8	653.7
47.5°	490.5	522.5	548.9	537.7	488.8	438.4	383.6	328.8
50°	313.3	354.4	398.1	386.1	318.4	263.0	244.7	226.4
52.5°	209.1	247.7	293.7	288.1	230.9	185.6	176.0	166.3
55°	121.2	140.0	163.0	161.6	135.7	115.4	111.7	107.9
57.5°	77.3	85.7	94.7	94.7	85.7	77.4	71.5	65.6
60°	54.8	61.7	69.2	68.3	58.9	50.5	45.4	40.2
62.5°	42.8	48.2	54.6	54.0	46.5	40.4	38.6	36.8
65°	34.8	35.3	35.7	35.5	34.6	33.6	32.7	31.7
67.5°	30.8	30.6	30.2	30.0	29.9	29.6	28.8	27.9
70°	27.4	27.5	27.5	27.3	26.8	26.3	25.9	25.4
72.5°	24.8	24.7	24.3	24.1	24.0	23.7	22.8	22.0
75°	20.1	20.1	20.1	19.9	19.4	18.9	18.5	18.0
77.5°	16.2	15.9	15.5	15.2	15.2	15.1	14.6	14.2
80°	13.6	13.4	12.9	12.7	12.7	12.6	12.1	11.6
82.5°	10.3	10.3	10.2	10.2	10.2	10.0	9.6	9.1
85°	6.3	6.0	5.5	5.3	5.3	5.3	5.3	5.3
87.5°	2.4	2.3	1.9	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)