

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: PORTFOLIO

Report Number: P1317670

Luminaire Tested: LDSQA3D17R509827DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509827DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

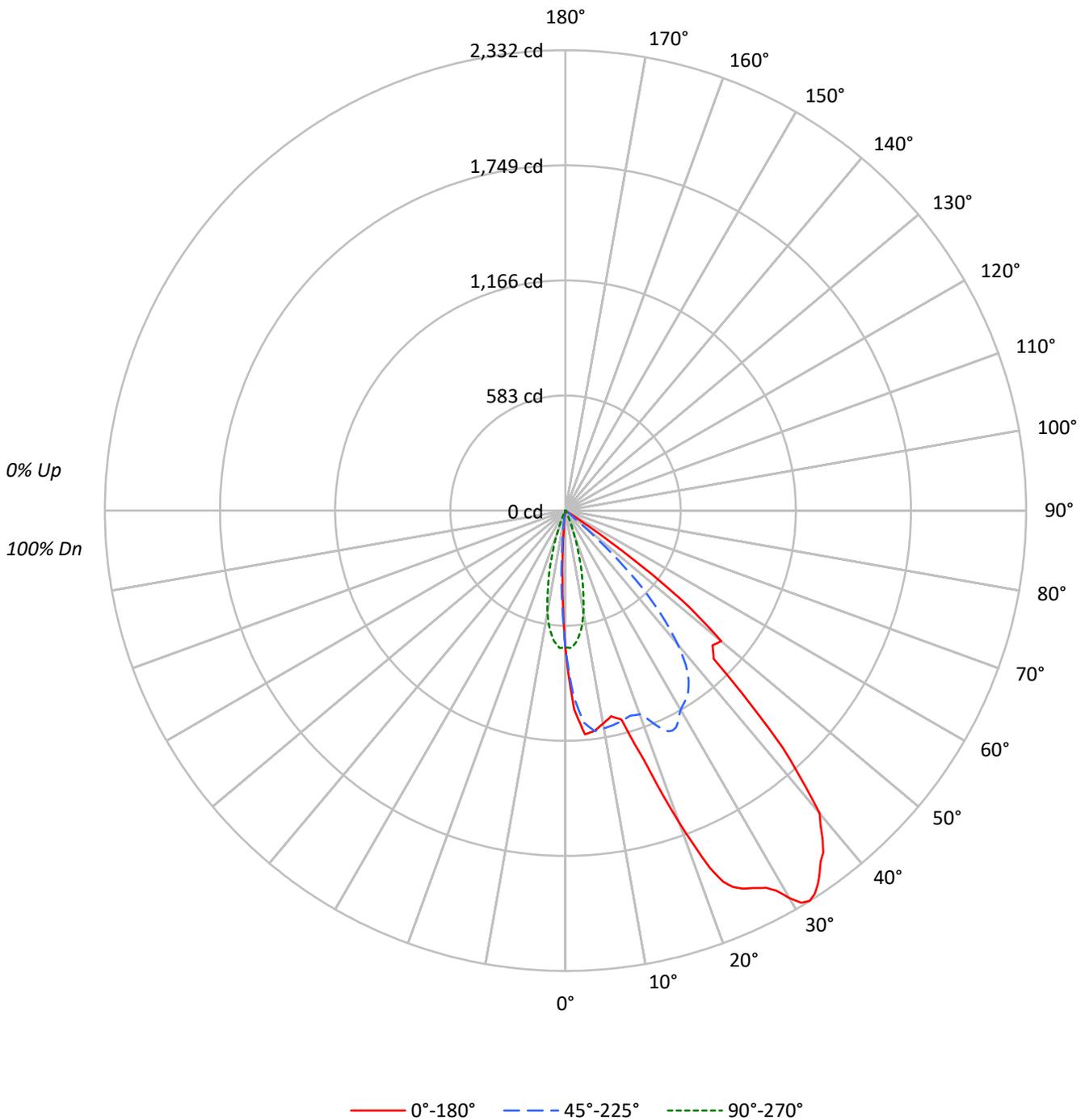
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1116.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
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: 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				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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	72	69	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	119333	119333	119333	119333	119333
5°	196617	186590	114672	34057	17029
10°	191615	195830	91882	1731	2291
15°	195361	196538	55041	1765	588
20°	307958	201218	22671	0	0
25°	401450	234436	5416	0	0
30°	450610	231837	219	0	0
35°	471559	228305	0	0	0
40°	449866	198359	0	0	0
45°	258344	130913	0	0	0
50°	275701	14951	0	0	0
55°	78548	0	0	0	0
60°	0	0	379	0	0
65°	0	448	448	0	0
70°	0	554	554	0	0
75°	0	732	732	0	0
80°	0	1091	2182	1091	0
85°	0	2174	4347	2174	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 285281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	5.2
10°-20°	146.6	13.1
20°-30°	281.6	25.2
30°-40°	327.8	29.4
40°-50°	234.6	21.0
50°-60°	65.3	5.9
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.8	0.1
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°	486.4	43.6
0°-40°	814.2	73.0
0°-60°	1114.1	99.8
0°-90°	1116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	693	693	693	693	693	
5°	1137	1079	663	197	98	104
15°	1096	1102	309	10	3	354
25°	2113	1234	28	0	0	961
35°	2243	1086	0	0	0	1388
45°	1061	538	0	0	0	998
55°	262	0	0	0	0	329
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	1007.1	1012.5	1013.6	1000.5	1002.7	984.1	985.2	972.0	940.3	829.7	696.2
5°	1137.3	1134.0	1137.3	1132.9	1137.3	1126.4	1119.8	1114.3	1079.3	922.8	663.3
7.5°	1125.3	1120.9	1127.5	1129.7	1137.3	1134.0	1135.1	1138.4	1126.4	973.1	607.5
10°	1095.7	1094.6	1097.9	1097.9	1106.7	1107.8	1112.1	1118.7	1119.8	990.6	525.4
12.5°	1067.3	1064.0	1064.0	1062.9	1067.3	1066.2	1077.1	1092.4	1113.2	979.7	412.7
15°	1095.7	1092.4	1088.1	1076.0	1067.3	1057.4	1058.5	1068.4	1102.3	951.2	308.7
17.5°	1325.6	1308.1	1286.2	1247.9	1207.4	1137.3	1095.7	1069.5	1089.2	907.5	205.8
20°	1680.3	1672.6	1637.6	1575.2	1509.5	1406.6	1278.5	1175.6	1097.9	852.7	123.7
21°	1814.9	1810.5	1773.3	1715.3	1640.9	1516.1	1384.7	1261.0	1115.4	829.7	97.4
22°	1952.8	1936.4	1906.9	1842.3	1764.6	1639.8	1493.1	1356.3	1150.5	800.2	74.4
23°	2041.5	2031.6	1999.9	1948.5	1874.0	1752.5	1602.5	1453.7	1184.4	767.3	55.8
24°	2087.5	2084.2	2059.0	2022.9	1959.4	1835.7	1693.4	1540.2	1212.9	729.0	40.5
25°	2112.6	2101.7	2086.4	2060.1	2011.9	1904.7	1777.7	1615.7	1233.7	690.7	28.5
26°	2128.0	2121.4	2097.3	2074.3	2028.4	1940.8	1832.4	1661.7	1239.1	643.6	19.7
27°	2145.5	2130.2	2107.2	2079.8	2028.4	1951.7	1853.2	1681.4	1232.6	595.5	13.1
28°	2164.1	2153.1	2121.4	2086.4	2025.1	1951.7	1845.6	1655.1	1212.9	549.5	7.7
29°	2200.2	2186.0	2146.6	2095.1	2026.2	1949.5	1816.0	1600.4	1186.6	498.1	4.4
30°	2265.9	2236.3	2188.2	2115.9	2033.8	1945.2	1766.7	1518.3	1165.8	440.0	1.1
31°	2317.3	2300.9	2245.1	2154.2	2055.7	1933.1	1708.7	1437.3	1151.6	389.7	0.0
32°	2331.6	2319.5	2279.0	2193.6	2092.9	1923.3	1643.0	1358.4	1140.6	333.9	0.0
33°	2315.2	2307.5	2264.8	2187.1	2102.8	1910.1	1567.5	1280.7	1128.6	283.5	0.0
34°	2284.5	2274.7	2237.4	2158.6	2077.6	1853.2	1495.3	1221.6	1111.1	236.4	0.0
35°	2242.9	2235.2	2196.9	2119.2	2031.6	1764.6	1423.0	1182.2	1085.9	189.4	0.0
36°	2198.0	2195.8	2146.6	2070.0	1972.5	1679.2	1335.5	1152.7	1060.7	150.0	0.0
37°	2168.5	2157.5	2103.9	2028.4	1902.5	1579.6	1265.4	1142.8	1025.7	116.0	0.0
38°	2114.8	2117.0	2055.7	1986.8	1831.3	1493.1	1208.5	1135.1	986.3	84.3	0.0
39°	2051.3	2052.4	1989.0	1929.8	1747.0	1402.2	1161.4	1127.5	937.0	53.6	0.0
40°	2001.0	1999.9	1927.7	1864.2	1656.2	1316.8	1136.2	1116.5	882.3	30.6	0.0
42.5°	1626.6	1633.2	1642.0	1668.2	1442.7	1166.9	1112.1	1055.2	726.8	0.0	0.0
45°	1060.7	1085.9	1092.4	1171.3	1170.2	1105.6	1055.2	945.8	537.5	0.0	0.0
47.5°	1009.3	1016.9	1031.1	1061.8	1078.2	1046.5	943.6	790.3	293.4	0.0	0.0
50°	1029.0	1027.9	1031.1	1031.1	1001.6	919.5	773.9	583.4	55.8	0.0	0.0
52.5°	738.9	766.2	795.8	808.9	770.6	684.1	564.8	342.6	0.0	0.0	0.0
55°	261.6	252.9	246.3	269.3	263.8	296.6	245.2	79.9	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	4.4	9.9	13.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.2
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):

	112.5°	135°	157.5°	180°
0°	692.9	692.9	692.9	692.9
2.5°	555.0	425.8	344.8	350.3
5°	389.7	197.0	121.5	98.5
7.5°	233.2	60.2	12.0	9.9
10°	109.5	9.9	10.9	13.1
12.5°	32.8	8.8	12.0	10.9
15°	8.8	9.9	5.5	3.3
17.5°	3.3	4.4	0.0	0.0
20°	2.2	0.0	0.0	0.0
21°	2.2	0.0	0.0	0.0
22°	1.1	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0
67.5°	1.1	0.0	0.0	0.0
70°	1.1	0.0	0.0	0.0
72.5°	1.1	0.0	0.0	0.0
75°	1.1	0.0	0.0	0.0
77.5°	1.1	0.0	0.0	0.0
80°	1.1	1.1	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.1	1.1	0.0	0.0
85°	1.1	1.1	0.0	0.0
87.5°	1.1	1.1	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)