

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: P1316783

Luminaire Tested: LDSQA3D17R509740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316783
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: LDSQA3D17R509740DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

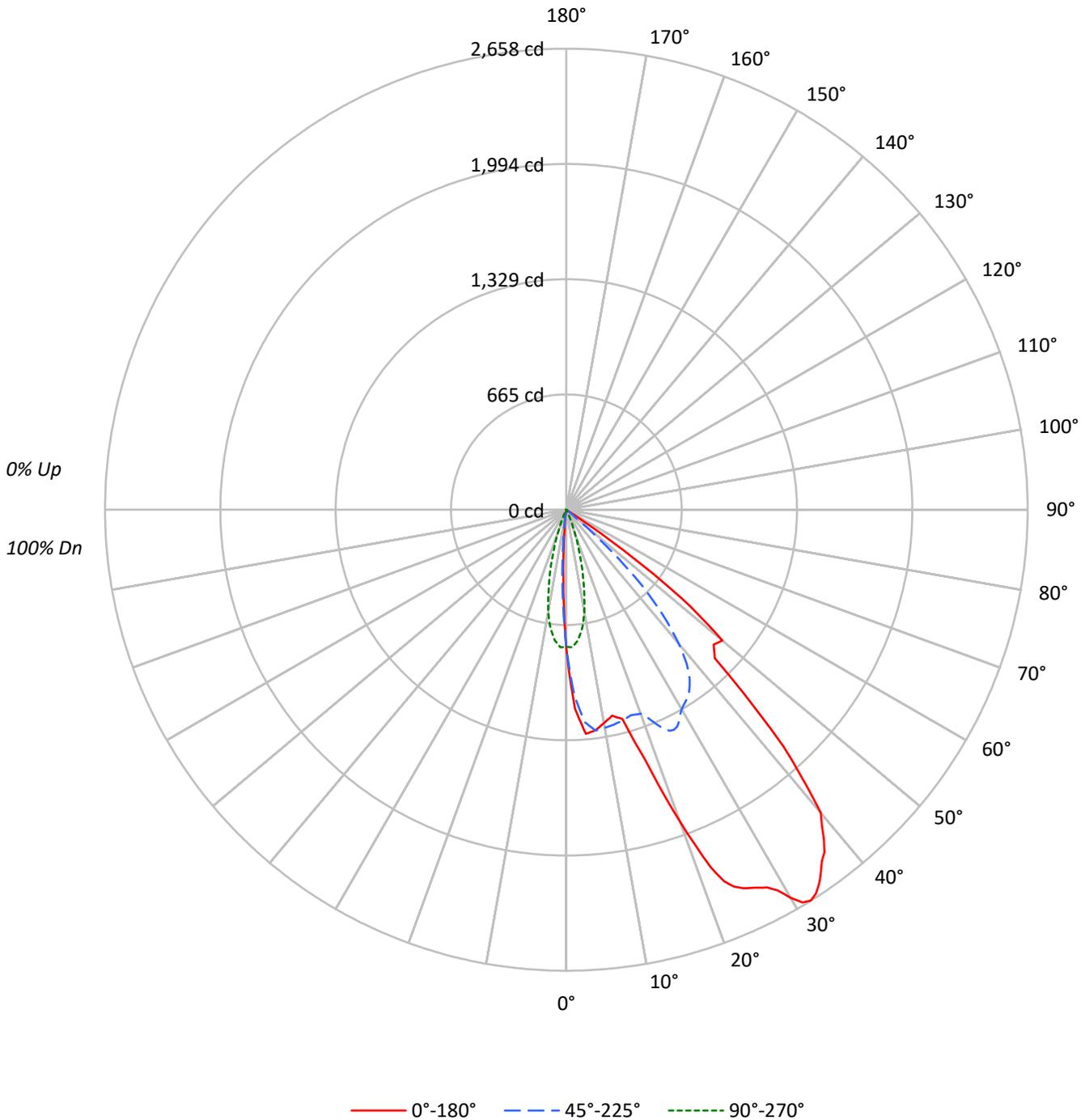
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.9 lumens
Efficiency: N/A
Efficacy: 60.0 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): 21.2
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				
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	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	136021	136021	136021	136021	136021
5°	224105	212678	130715	38829	19414
10°	218407	223199	104735	1959	2623
15°	222676	224014	62725	1997	660
20°	350991	229351	25842	0	0
25°	457584	267196	6157	0	0
30°	513590	264233	239	0	0
35°	537470	260220	0	0	0
40°	512749	226080	0	0	0
45°	294464	149205	0	0	0
50°	314229	17040	0	0	0
55°	89538	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	2479	1190	0
85°	0	2371	4940	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 325152 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	5.2
10°-20°	167.1	13.1
20°-30°	321.0	25.2
30°-40°	373.6	29.4
40°-50°	267.4	21.0
50°-60°	74.4	5.9
60°-70°	0.5	0.0
70°-80°	0.7	0.1
80°-90°	0.9	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°	554.4	43.6
0°-40°	928.0	73.0
0°-60°	1269.8	99.8
0°-90°	1271.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	790	790	790	790	790	
5°	1296	1230	756	225	112	119
15°	1249	1256	352	11	4	403
25°	2408	1406	32	0	0	1095
35°	2556	1238	0	0	0	1582
45°	1209	613	0	0	0	1137
55°	298	0	0	0	0	375
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°	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8	789.8
2.5°	1147.8	1154.1	1155.3	1140.4	1142.8	1121.6	1122.9	1107.9	1071.7	945.7	793.5
5°	1296.3	1292.6	1296.3	1291.3	1296.3	1283.8	1276.3	1270.1	1230.2	1051.8	756.1
7.5°	1282.6	1277.6	1285.1	1287.6	1296.3	1292.6	1293.8	1297.6	1283.8	1109.2	692.4
10°	1248.9	1247.6	1251.4	1251.4	1261.4	1262.6	1267.6	1275.1	1276.3	1129.1	598.9
12.5°	1216.5	1212.7	1212.7	1211.5	1216.5	1215.2	1227.7	1245.2	1268.9	1116.6	470.4
15°	1248.9	1245.2	1240.2	1226.4	1216.5	1205.2	1206.5	1217.7	1256.4	1084.2	351.8
17.5°	1510.9	1490.9	1466.0	1422.3	1376.2	1296.3	1248.9	1219.0	1241.4	1034.3	234.6
20°	1915.1	1906.4	1866.5	1795.4	1720.5	1603.2	1457.3	1340.0	1251.4	971.9	141.0
21°	2068.6	2063.6	2021.2	1955.1	1870.2	1728.0	1578.3	1437.3	1271.4	945.7	111.0
22°	2225.8	2207.1	2173.4	2099.8	2011.2	1869.0	1701.8	1545.8	1311.3	912.0	84.8
23°	2326.9	2315.6	2279.5	2220.8	2136.0	1997.5	1826.6	1656.9	1350.0	874.6	63.6
24°	2379.3	2375.5	2346.8	2305.7	2233.3	2092.3	1930.1	1755.4	1382.4	830.9	46.2
25°	2408.0	2395.5	2378.0	2348.1	2293.2	2170.9	2026.2	1841.5	1406.1	787.3	32.4
26°	2425.4	2417.9	2390.5	2364.3	2311.9	2212.1	2088.6	1893.9	1412.3	733.6	22.5
27°	2445.4	2427.9	2401.7	2370.5	2311.9	2224.6	2112.3	1916.4	1404.9	678.7	15.0
28°	2466.6	2454.1	2417.9	2378.0	2308.2	2224.6	2103.5	1886.4	1382.4	626.3	8.7
29°	2507.8	2491.6	2446.6	2388.0	2309.4	2222.1	2069.9	1824.1	1352.5	567.7	5.0
30°	2582.6	2548.9	2494.1	2411.7	2318.1	2217.1	2013.7	1730.5	1328.7	501.6	1.2
31°	2641.3	2622.6	2558.9	2455.4	2343.1	2203.3	1947.6	1638.2	1312.5	444.2	0.0
32°	2657.5	2643.8	2597.6	2500.3	2385.5	2192.1	1872.7	1548.3	1300.1	380.5	0.0
33°	2638.8	2630.0	2581.4	2492.8	2396.7	2177.1	1786.6	1459.7	1286.3	323.1	0.0
34°	2603.8	2592.6	2550.2	2460.4	2368.0	2112.3	1704.3	1392.4	1266.4	269.5	0.0
35°	2556.4	2547.7	2504.0	2415.4	2315.6	2011.2	1621.9	1347.5	1237.7	215.8	0.0
36°	2505.3	2502.8	2446.6	2359.3	2248.3	1913.9	1522.1	1313.8	1209.0	170.9	0.0
37°	2471.6	2459.1	2398.0	2311.9	2168.4	1800.4	1442.3	1302.5	1169.0	132.3	0.0
38°	2410.5	2413.0	2343.1	2264.5	2087.3	1701.8	1377.4	1293.8	1124.1	96.1	0.0
39°	2338.1	2339.3	2267.0	2199.6	1991.2	1598.2	1323.8	1285.1	1068.0	61.1	0.0
40°	2280.7	2279.5	2197.1	2124.7	1887.7	1500.9	1295.1	1272.6	1005.6	34.9	0.0
42.5°	1854.0	1861.5	1871.5	1901.4	1644.4	1330.0	1267.6	1202.7	828.4	0.0	0.0
45°	1209.0	1237.7	1245.2	1335.0	1333.7	1260.1	1202.7	1078.0	612.6	0.0	0.0
47.5°	1150.3	1159.1	1175.3	1210.2	1228.9	1192.8	1075.5	900.8	334.4	0.0	0.0
50°	1172.8	1171.5	1175.3	1175.3	1141.6	1048.0	882.1	665.0	63.6	0.0	0.0
52.5°	842.2	873.4	907.0	922.0	878.3	779.8	643.8	390.5	0.0	0.0	0.0
55°	298.2	288.2	280.7	306.9	300.7	338.1	279.5	91.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	5.0	11.2	15.0	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	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5



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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	1.2	1.2	1.2	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.5
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°	789.8	789.8	789.8	789.8
2.5°	632.6	485.3	393.0	399.2
5°	444.2	224.6	138.5	112.3
7.5°	265.7	68.6	13.7	11.2
10°	124.8	11.2	12.5	15.0
12.5°	37.4	10.0	13.7	12.5
15°	10.0	11.2	6.2	3.7
17.5°	3.7	5.0	0.0	0.0
20°	2.5	0.0	0.0	0.0
21°	2.5	0.0	0.0	0.0
22°	1.2	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°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	1.2	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.2	1.2	0.0	0.0
85°	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)