

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: P1312596

Luminaire Tested: LDSQA3D13R459050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

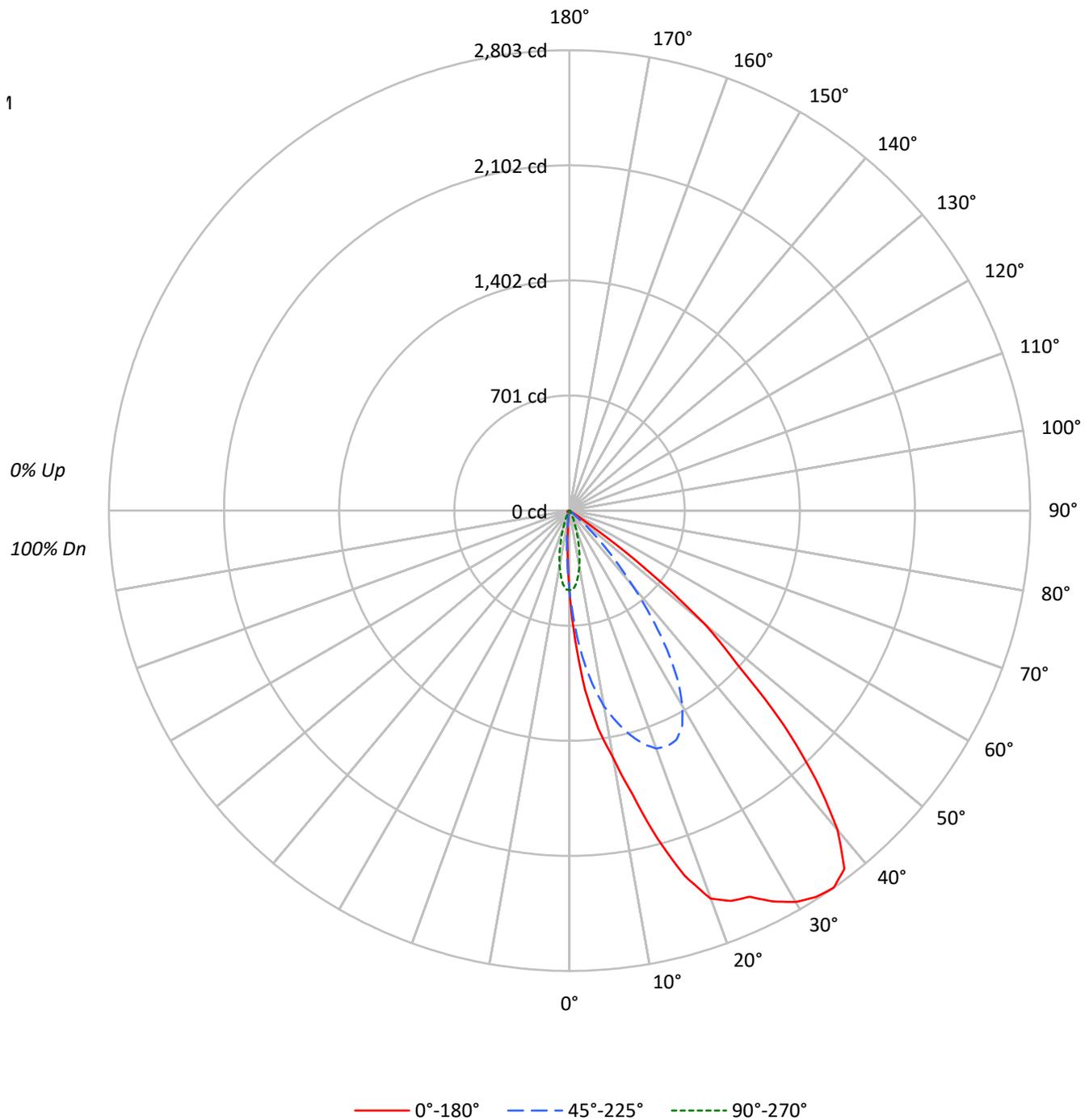
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1270.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
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	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	83235	83235	83235	83235	83235
5°	189684	153864	77848	31222	21299
10°	267286	211377	60176	6873	3165
15°	368328	251489	38441	2264	1890
20°	460571	282446	20050	1558	1558
25°	492872	292451	9292	1216	1406
30°	547059	273102	4216	1273	1472
35°	589296	217730	1346	1346	1787
40°	570213	134915	719	1664	2158
45°	447784	63642	779	2070	2582
50°	287704	7395	1125	2572	3403
55°	43688	631	1261	3183	4144
60°	723	723	1447	3651	4374
65°	856	856	1712	3912	5175
70°	1057	1057	2115	4280	5891
75°	732	1397	2795	4924	6388
80°	1091	2083	3174	5256	7339
85°	0	2174	4150	6323	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 447784 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	4.2
10°-20°	191.2	15.1
20°-30°	335.9	26.5
30°-40°	381.5	30.0
40°-50°	247.0	19.5
50°-60°	48.5	3.8
60°-70°	5.9	0.5
70°-80°	4.9	0.4
80°-90°	2.2	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°	580.0	45.7
0°-40°	961.5	75.7
0°-60°	1257.0	99.0
0°-90°	1270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	483	483	483	483	483	
5°	1097	890	450	181	123	117
15°	2066	1410	216	13	11	595
25°	2594	1539	49	6	7	1216
35°	2803	1036	6	6	8	1723
45°	1838	261	3	8	11	1386
55°	146	2	4	11	14	278
65°	2	2	4	10	13	2
75°	1	2	4	7	10	1
85°	0	1	2	3	3	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	784.9	782.8	786.0	764.7	763.7	747.7	743.5	725.4	701.0	689.3	661.7
5°	1097.2	1086.5	1086.5	1061.0	1052.6	1034.5	1003.7	965.5	933.6	890.0	843.3
7.5°	1338.3	1336.1	1336.1	1313.8	1292.6	1267.1	1225.7	1182.1	1131.1	1064.2	996.3
10°	1528.4	1531.6	1522.0	1501.8	1471.0	1443.4	1394.6	1341.4	1278.8	1208.7	1118.4
12.5°	1768.4	1745.0	1737.6	1691.9	1652.6	1599.5	1541.1	1480.6	1403.0	1314.9	1212.9
15°	2065.8	2036.1	2006.3	1945.8	1879.9	1798.2	1706.8	1617.6	1517.8	1410.5	1283.0
17.5°	2331.3	2331.3	2292.0	2196.4	2111.5	1990.4	1867.2	1748.2	1630.3	1489.1	1329.8
20°	2513.0	2503.4	2473.7	2403.6	2306.9	2169.9	2009.5	1842.8	1700.4	1541.1	1356.3
22.5°	2572.4	2570.3	2571.4	2529.9	2452.4	2310.1	2113.6	1917.1	1738.7	1553.9	1343.6
25°	2593.7	2597.9	2608.5	2592.6	2534.2	2391.9	2177.3	1952.2	1750.4	1539.0	1294.7
27.5°	2681.8	2673.3	2685.0	2674.4	2608.5	2438.6	2190.1	1943.7	1724.9	1484.8	1207.6
30°	2750.9	2748.7	2768.9	2759.4	2673.3	2468.3	2178.4	1911.8	1662.2	1373.3	1070.6
32.5°	2790.2	2791.2	2796.5	2757.2	2629.8	2403.6	2121.0	1847.0	1544.3	1227.8	892.2
35°	2802.9	2796.5	2766.8	2670.1	2496.0	2253.8	1979.8	1693.0	1383.9	1035.6	705.2
37.5°	2747.7	2714.8	2638.3	2493.8	2292.0	2065.8	1799.2	1498.6	1164.1	817.8	525.7
40°	2536.3	2492.8	2396.1	2248.5	2060.5	1841.7	1568.7	1254.4	902.8	600.1	369.6
42.5°	2219.8	2197.5	2096.6	1968.1	1808.8	1587.9	1306.4	987.8	668.1	414.2	235.8
45°	1838.5	1809.8	1746.1	1632.5	1507.1	1275.6	1013.3	707.4	455.6	261.3	116.8
47.5°	1378.6	1380.7	1337.2	1251.2	1128.0	934.7	693.6	474.8	285.7	134.9	26.6
50°	1073.8	1058.9	997.3	909.2	765.8	622.4	448.2	299.5	150.8	27.6	2.1
52.5°	594.8	604.3	571.4	542.7	468.4	371.7	264.5	151.9	31.9	3.2	2.1
55°	145.5	154.0	147.6	150.8	156.1	139.1	107.3	29.7	3.2	2.1	2.1
57.5°	3.2	3.2	3.2	3.2	5.3	7.4	7.4	2.1	2.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
82.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	483.3	483.3	483.3	483.3	483.3	483.3	483.3	483.3
2.5°	647.9	627.7	590.5	480.1	385.5	311.2	266.6	262.3
5°	801.9	747.7	669.1	450.3	284.6	180.6	130.6	123.2
7.5°	924.0	847.6	726.5	401.5	194.4	92.4	51.0	42.5
10°	1024.9	916.6	756.2	344.1	122.1	39.3	21.2	18.1
12.5°	1094.0	963.3	761.5	280.4	70.1	19.1	13.8	12.7
15°	1138.6	978.2	736.0	215.6	39.3	12.7	11.7	10.6
17.5°	1156.6	965.5	687.2	156.1	21.2	9.6	9.6	9.6
20°	1148.1	924.0	615.0	109.4	13.8	8.5	8.5	8.5
22.5°	1107.8	852.9	524.7	73.3	9.6	7.4	7.4	7.4
25°	1028.1	756.2	429.1	48.9	6.4	6.4	7.4	7.4
27.5°	909.2	637.3	328.2	32.9	5.3	6.4	7.4	7.4
30°	759.4	504.5	235.8	21.2	5.3	6.4	6.4	7.4
32.5°	603.3	367.5	155.1	12.7	4.2	6.4	7.4	8.5
35°	437.6	250.7	98.8	6.4	5.3	6.4	7.4	8.5
37.5°	307.0	163.6	57.4	4.2	5.3	6.4	8.5	8.5
40°	199.7	91.3	21.2	3.2	5.3	7.4	8.5	9.6
42.5°	104.1	31.9	4.2	3.2	5.3	7.4	9.6	10.6
45°	26.6	4.2	1.1	3.2	6.4	8.5	10.6	10.6
47.5°	3.2	1.1	1.1	4.2	6.4	9.6	10.6	11.7
50°	1.1	2.1	2.1	4.2	6.4	9.6	11.7	12.7
52.5°	2.1	2.1	2.1	4.2	7.4	9.6	12.7	13.8
55°	2.1	2.1	2.1	4.2	7.4	10.6	12.7	13.8
57.5°	2.1	2.1	2.1	4.2	7.4	10.6	12.7	12.7
60°	2.1	2.1	2.1	4.2	7.4	10.6	12.7	12.7
62.5°	2.1	2.1	3.2	4.2	7.4	9.6	12.7	12.7
65°	2.1	3.2	3.2	4.2	7.4	9.6	11.7	12.7
67.5°	2.1	2.1	3.2	4.2	7.4	9.6	11.7	12.7
70°	2.1	2.1	3.2	4.2	6.4	8.5	10.6	11.7
72.5°	2.1	2.1	3.2	4.2	6.4	8.5	9.6	10.6
75°	2.1	2.1	3.2	4.2	5.3	7.4	9.6	9.6
77.5°	2.1	2.1	3.2	3.2	5.3	6.4	8.5	8.5
80°	2.1	2.1	3.2	3.2	4.2	5.3	6.4	7.4
82.5°	2.1	2.1	2.1	3.2	3.2	4.2	5.3	5.3
85°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2
87.5°	1.1	2.1	2.1	2.1	2.1	2.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)