

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: P1314026

Luminaire Tested: LDSQA3D20R509727D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509727D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

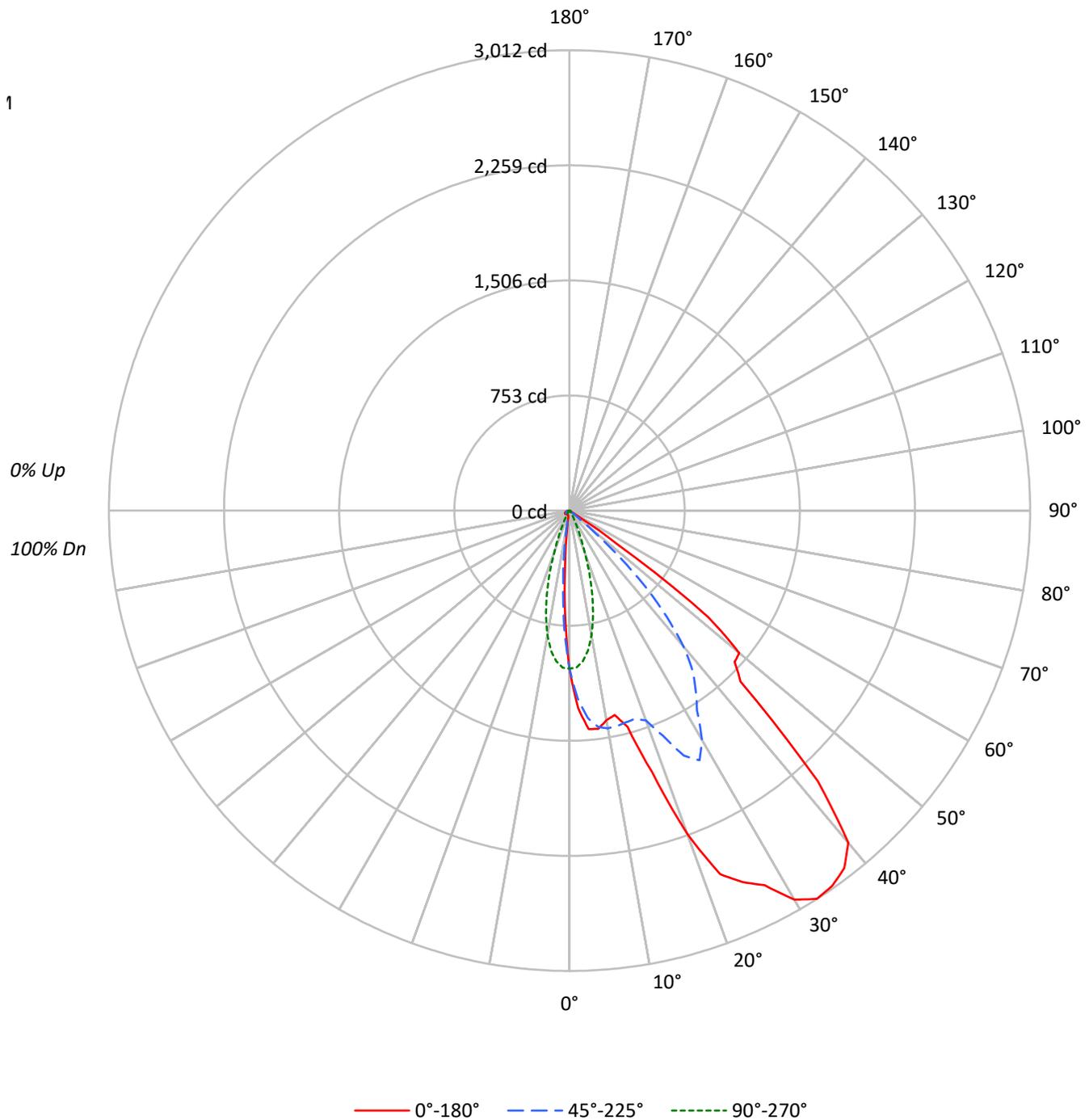
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1607.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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		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	103	110	107	104	101	102	100	98	99	97	95	95	94	93		91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83		81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74		73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67		65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60		58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54		53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49		47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45		43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41		39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	177940	177940	177940	177940	177940
5°	248101	235377	171031	82205	53334
10°	243537	252946	144538	17331	7432
15°	261171	255626	102200	6062	5813
20°	412425	267692	53956	5187	5443
25°	509651	336176	21511	4846	5378
30°	584287	344773	8730	4793	5628
35°	629936	302627	3869	5067	6244
40°	637636	260590	2855	5733	6992
45°	385384	168909	2752	6211	7940
50°	388312	29204	3028	7207	9110
55°	114730	1711	3393	8077	10209
60°	1963	1963	3410	8783	11229
65°	1712	1712	3464	9210	12103
70°	2115	2115	3575	9970	13545
75°	1863	1863	3793	10381	14107
80°	1389	2777	4166	9819	15472
85°	2766	5533	5533	11263	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 440185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	5.2
10°-20°	207.4	12.9
20°-30°	388.6	24.2
30°-40°	464.6	28.9
40°-50°	333.0	20.7
50°-60°	102.6	6.4
60°-70°	13.4	0.8
70°-80°	9.7	0.6
80°-90°	4.0	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°	679.6	42.3
0°-40°	1144.3	71.2
0°-60°	1579.9	98.3
0°-90°	1607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1033	1033	1033	1033	1033	
5°	1435	1362	989	476	308	133
15°	1465	1434	573	34	33	469
25°	2682	1769	113	26	28	1236
35°	2996	1439	18	24	30	1859
45°	1582	694	11	26	33	1453
55°	382	6	11	27	34	492
65°	4	4	8	23	30	5
75°	3	3	6	16	21	3
85°	1	3	3	6	7	1
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°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1292.2	1295.0	1299.2	1287.9	1280.8	1275.2	1265.3	1262.4	1238.4	1228.5	1218.6
5°	1435.1	1432.3	1435.1	1430.9	1428.0	1419.5	1411.0	1396.9	1381.3	1361.5	1338.9
7.5°	1439.4	1436.5	1442.2	1442.2	1447.8	1447.8	1447.8	1449.3	1440.8	1426.6	1406.8
10°	1392.6	1392.6	1398.3	1395.5	1405.4	1409.6	1419.5	1436.5	1445.0	1446.4	1440.8
12.5°	1368.6	1368.6	1370.0	1364.3	1367.2	1371.4	1382.7	1402.6	1422.4	1442.2	1453.5
15°	1464.8	1467.7	1447.8	1419.5	1398.3	1375.7	1368.6	1381.3	1402.6	1433.7	1459.2
17.5°	1791.8	1796.0	1774.8	1706.8	1641.7	1548.3	1464.8	1423.8	1401.1	1426.6	1460.6
20°	2250.3	2234.7	2198.0	2125.8	2030.9	1886.6	1756.4	1624.8	1498.8	1460.6	1471.9
22.5°	2574.4	2568.8	2539.0	2458.4	2376.3	2241.8	2076.2	1892.2	1709.7	1593.6	1532.8
25°	2682.0	2677.7	2650.8	2602.7	2557.4	2455.5	2306.9	2121.5	1930.5	1769.1	1616.3
27.5°	2762.7	2757.0	2714.5	2660.8	2614.0	2510.7	2374.9	2234.7	2059.3	1841.3	1606.4
30°	2938.1	2922.6	2863.1	2766.9	2677.7	2534.8	2384.8	2210.7	1972.9	1733.7	1504.5
32.5°	3011.7	3003.3	2952.3	2874.5	2776.8	2590.0	2362.1	2070.6	1757.8	1551.2	1384.2
35°	2996.2	2983.4	2931.1	2841.9	2723.0	2543.3	2239.0	1838.5	1583.7	1439.4	1251.1
37.5°	2949.5	2931.1	2868.8	2764.1	2619.7	2384.8	1987.1	1650.2	1486.1	1323.3	1070.0
40°	2836.2	2806.5	2734.3	2625.4	2481.0	2172.5	1757.8	1537.0	1384.2	1159.1	867.6
42.5°	2403.2	2387.6	2423.0	2404.6	2277.2	1913.5	1595.0	1433.7	1222.8	936.9	628.4
45°	1582.3	1609.2	1672.9	1781.9	1807.3	1646.0	1462.0	1263.9	1006.3	693.5	362.3
47.5°	1464.8	1459.2	1474.7	1496.0	1500.2	1432.3	1265.3	1044.5	747.3	396.3	100.5
50°	1449.3	1440.8	1428.0	1402.6	1348.8	1217.2	1027.5	761.4	431.7	109.0	7.1
52.5°	1145.0	1136.5	1136.5	1099.7	1030.3	903.0	709.1	418.9	120.3	7.1	5.7
55°	382.1	407.6	403.4	401.9	433.1	399.1	305.7	107.6	9.9	5.7	5.7
57.5°	7.1	7.1	7.1	12.7	19.8	28.3	17.0	8.5	5.7	5.7	5.7
60°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
62.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.7
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
77.5°	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
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°	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2	1033.2
2.5°	1195.9	1176.1	1137.9	1028.9	908.6	771.3	677.9	666.6
5°	1303.5	1273.8	1211.5	989.3	714.7	475.5	353.8	308.5
7.5°	1374.2	1334.6	1258.2	924.2	520.8	250.5	134.5	107.6
10°	1416.7	1379.9	1282.3	826.5	331.2	99.1	45.3	42.5
12.5°	1439.4	1404.0	1290.7	709.1	186.8	45.3	35.4	35.4
15°	1454.9	1416.7	1278.0	573.2	93.4	34.0	32.6	32.6
17.5°	1462.0	1415.3	1241.2	431.7	49.5	31.1	31.1	31.1
20°	1466.2	1399.7	1173.3	294.4	34.0	28.3	29.7	29.7
22.5°	1470.5	1361.5	1084.1	186.8	26.9	26.9	28.3	28.3
25°	1462.0	1295.0	958.2	113.2	24.1	25.5	26.9	28.3
27.5°	1401.1	1194.5	805.3	69.3	21.2	24.1	26.9	28.3
30°	1296.4	1047.3	628.4	43.9	19.8	24.1	26.9	28.3
32.5°	1160.5	878.9	448.6	26.9	19.8	24.1	26.9	28.3
35°	978.0	672.3	291.6	18.4	19.8	24.1	28.3	29.7
37.5°	772.8	469.9	157.1	14.2	19.8	24.1	28.3	29.7
40°	556.2	281.6	56.6	12.7	18.4	25.5	29.7	31.1
42.5°	325.5	104.7	9.9	11.3	18.4	25.5	29.7	31.1
45°	93.4	11.3	5.7	11.3	18.4	25.5	31.1	32.6
47.5°	7.1	4.2	5.7	11.3	18.4	25.5	31.1	34.0
50°	4.2	4.2	4.2	11.3	18.4	26.9	32.6	34.0
52.5°	5.7	5.7	5.7	11.3	18.4	26.9	32.6	34.0
55°	5.7	5.7	5.7	11.3	18.4	26.9	32.6	34.0
57.5°	5.7	5.7	5.7	11.3	18.4	25.5	32.6	34.0
60°	5.7	5.7	5.7	9.9	17.0	25.5	31.1	32.6
62.5°	5.7	5.7	5.7	9.9	17.0	24.1	31.1	31.1
65°	5.7	5.7	5.7	8.5	15.6	22.6	28.3	29.7
67.5°	5.7	5.7	5.7	8.5	14.2	21.2	26.9	28.3
70°	4.2	5.7	5.7	7.1	12.7	19.8	25.5	26.9
72.5°	4.2	4.2	5.7	7.1	11.3	17.0	22.6	24.1
75°	4.2	4.2	4.2	5.7	9.9	15.6	19.8	21.2
77.5°	4.2	4.2	4.2	5.7	8.5	12.7	18.4	18.4
80°	2.8	4.2	4.2	4.2	7.1	9.9	14.2	15.6
82.5°	2.8	2.8	2.8	4.2	5.7	8.5	11.3	11.3
85°	2.8	2.8	2.8	2.8	4.2	5.7	7.1	7.1
87.5°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)