

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: P1316942

Luminaire Tested: LDSQA3D20R509740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316942
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: LDSQA3D20R509740D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

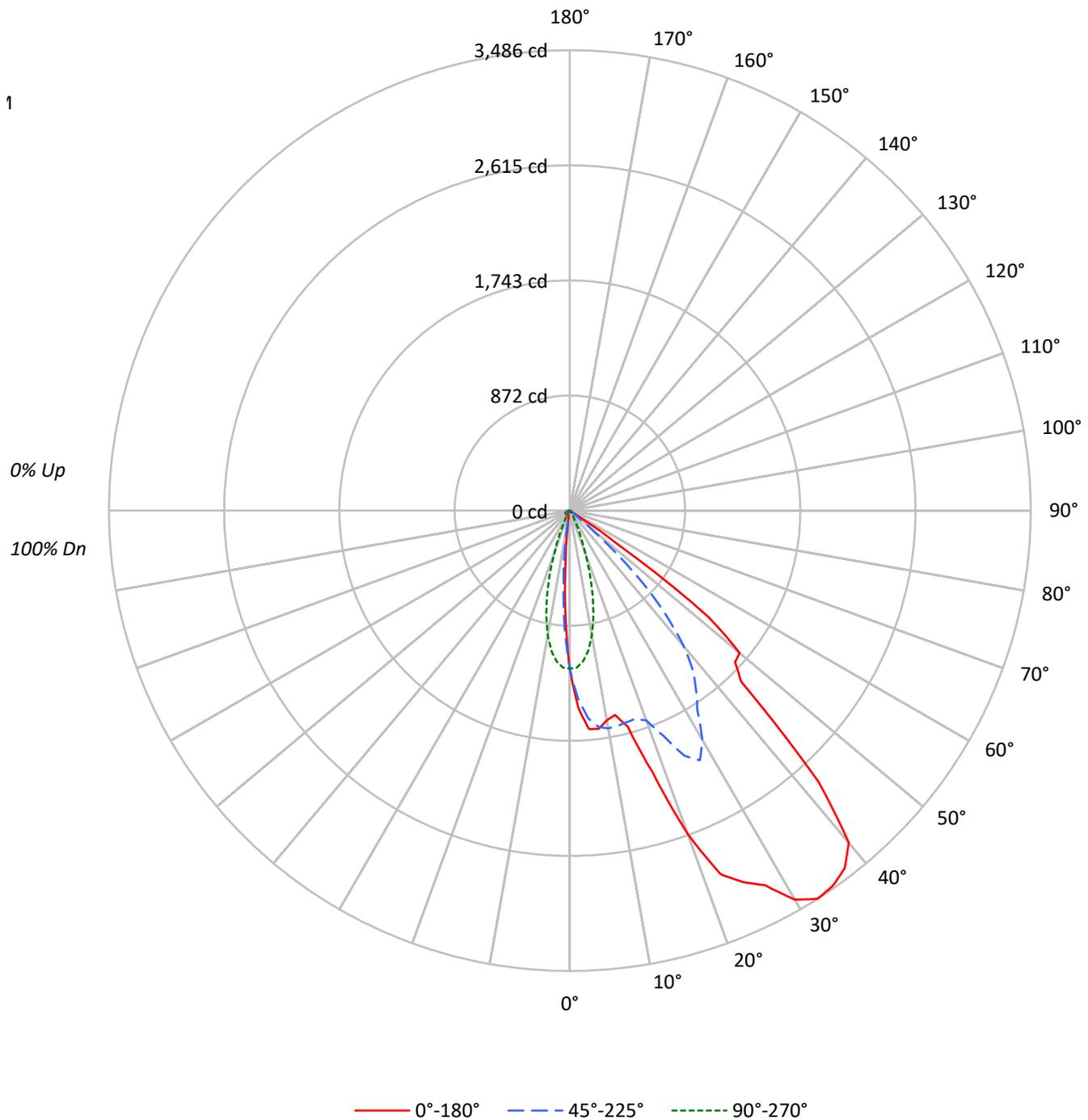
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1860.0 lumens
Efficiency: N/A
Efficacy: 64.6 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 (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	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	205944	205944	205944	205944	205944
5°	287155	272442	197948	95153	61736
10°	281888	292783	167307	20059	8587
15°	302286	295868	118283	7007	6722
20°	477359	309827	62442	6011	6305
25°	589881	389099	24893	5606	6233
30°	676282	399064	10102	5528	6523
35°	729109	350268	4478	5845	7232
40°	738041	301619	3305	6632	8094
45°	446055	195505	3191	7185	9182
50°	449427	33786	3510	8333	10530
55°	132805	1982	3933	9338	11800
60°	2273	2273	3961	10161	12986
65°	1997	1997	3994	10677	14018
70°	2467	2467	4129	11531	15660
75°	2196	2196	4392	11978	16369
80°	1587	3273	4860	11406	17852
85°	3162	6521	6521	13042	16203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 509502 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	5.2
10°-20°	240.1	12.9
20°-30°	449.8	24.2
30°-40°	537.8	28.9
40°-50°	385.4	20.7
50°-60°	118.8	6.4
60°-70°	15.5	0.8
70°-80°	11.3	0.6
80°-90°	4.6	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°	786.6	42.3
0°-40°	1324.4	71.2
0°-60°	1828.6	98.3
0°-90°	1860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1860.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1196	1196	1196	1196	1196	
5°	1661	1576	1145	550	357	154
15°	1695	1659	663	39	38	543
25°	3104	2048	131	30	33	1430
35°	3468	1666	21	28	34	2151
45°	1831	803	13	30	38	1682
55°	442	7	13	31	39	569
65°	5	5	10	26	34	5
75°	3	3	7	18	25	3
85°	2	3	3	7	8	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°	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8
2.5°	1495.6	1498.9	1503.8	1490.7	1482.5	1475.9	1464.5	1461.2	1433.3	1421.9	1410.4
5°	1661.0	1657.8	1661.0	1656.1	1652.9	1643.0	1633.2	1616.8	1598.8	1575.9	1549.7
7.5°	1666.0	1662.7	1669.2	1669.2	1675.8	1675.8	1675.8	1677.4	1667.6	1651.2	1628.3
10°	1611.9	1611.9	1618.5	1615.2	1626.6	1631.6	1643.0	1662.7	1672.5	1674.2	1667.6
12.5°	1584.1	1584.1	1585.7	1579.1	1582.4	1587.3	1600.4	1623.4	1646.3	1669.2	1682.3
15°	1695.4	1698.7	1675.8	1643.0	1618.5	1592.2	1584.1	1598.8	1623.4	1659.4	1688.9
17.5°	2073.8	2078.8	2054.2	1975.6	1900.2	1792.1	1695.4	1647.9	1621.7	1651.2	1690.5
20°	2604.6	2586.6	2544.0	2460.4	2350.7	2183.6	2032.9	1880.6	1734.8	1690.5	1703.6
22.5°	2979.7	2973.2	2938.8	2845.4	2750.4	2594.8	2403.1	2190.2	1978.8	1844.5	1774.1
25°	3104.2	3099.3	3068.2	3012.5	2960.1	2842.1	2670.1	2455.5	2234.4	2047.6	1870.7
27.5°	3197.6	3191.0	3141.9	3079.7	3025.6	2906.0	2748.8	2586.6	2383.5	2131.2	1859.3
30°	3400.7	3382.7	3313.9	3202.5	3099.3	2933.9	2760.2	2558.7	2283.5	2006.7	1741.3
32.5°	3485.9	3476.1	3417.1	3327.0	3214.0	2997.7	2734.0	2396.6	2034.5	1795.4	1602.1
35°	3467.9	3453.1	3392.5	3289.3	3151.7	2943.7	2591.5	2127.9	1833.0	1666.0	1448.1
37.5°	3413.8	3392.5	3320.5	3199.2	3032.1	2760.2	2299.9	1910.0	1720.0	1531.6	1238.4
40°	3282.8	3248.4	3164.8	3038.7	2871.6	2514.5	2034.5	1779.0	1602.1	1341.6	1004.2
42.5°	2781.5	2763.5	2804.4	2783.2	2635.7	2214.7	1846.2	1659.4	1415.3	1084.4	727.3
45°	1831.4	1862.5	1936.2	2062.4	2091.9	1905.1	1692.2	1462.8	1164.7	802.7	419.4
47.5°	1695.4	1688.9	1706.9	1731.5	1736.4	1657.8	1464.5	1208.9	864.9	458.7	116.3
50°	1677.4	1667.6	1652.9	1623.4	1561.1	1408.8	1189.3	881.3	499.6	126.1	8.2
52.5°	1325.2	1315.4	1315.4	1272.8	1192.5	1045.1	820.7	484.9	139.2	8.2	6.6
55°	442.3	471.8	466.9	465.2	501.3	461.9	353.8	124.5	11.5	6.6	6.6
57.5°	8.2	8.2	8.2	14.7	22.9	32.8	19.7	9.8	6.6	6.6	6.6
60°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
62.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9
75°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9
77.5°	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
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°	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8	1195.8
2.5°	1384.2	1361.3	1317.0	1190.9	1051.7	892.8	784.7	771.6
5°	1508.7	1474.3	1402.2	1145.0	827.2	550.4	409.5	357.1
7.5°	1590.6	1544.7	1456.3	1069.7	602.8	289.9	155.6	124.5
10°	1639.7	1597.2	1484.1	956.7	383.3	114.7	52.4	49.1
12.5°	1666.0	1625.0	1494.0	820.7	216.2	52.4	41.0	41.0
15°	1684.0	1639.7	1479.2	663.4	108.1	39.3	37.7	37.7
17.5°	1692.2	1638.1	1436.6	499.6	57.3	36.0	36.0	36.0
20°	1697.1	1620.1	1358.0	340.7	39.3	32.8	34.4	34.4
22.5°	1702.0	1575.9	1254.8	216.2	31.1	31.1	32.8	32.8
25°	1692.2	1498.9	1109.0	131.0	27.8	29.5	31.1	32.8
27.5°	1621.7	1382.6	932.1	80.3	24.6	27.8	31.1	32.8
30°	1500.5	1212.2	727.3	50.8	22.9	27.8	31.1	32.8
32.5°	1343.3	1017.3	519.3	31.1	22.9	27.8	31.1	32.8
35°	1131.9	778.1	337.5	21.3	22.9	27.8	32.8	34.4
37.5°	894.4	543.9	181.8	16.4	22.9	27.8	32.8	34.4
40°	643.8	326.0	65.5	14.7	21.3	29.5	34.4	36.0
42.5°	376.8	121.2	11.5	13.1	21.3	29.5	34.4	36.0
45°	108.1	13.1	6.6	13.1	21.3	29.5	36.0	37.7
47.5°	8.2	4.9	6.6	13.1	21.3	29.5	36.0	39.3
50°	4.9	4.9	4.9	13.1	21.3	31.1	37.7	39.3
52.5°	6.6	6.6	6.6	13.1	21.3	31.1	37.7	39.3
55°	6.6	6.6	6.6	13.1	21.3	31.1	37.7	39.3
57.5°	6.6	6.6	6.6	13.1	21.3	29.5	37.7	39.3
60°	6.6	6.6	6.6	11.5	19.7	29.5	36.0	37.7
62.5°	6.6	6.6	6.6	11.5	19.7	27.8	36.0	36.0
65°	6.6	6.6	6.6	9.8	18.0	26.2	32.8	34.4
67.5°	6.6	6.6	6.6	9.8	16.4	24.6	31.1	32.8
70°	4.9	6.6	6.6	8.2	14.7	22.9	29.5	31.1
72.5°	4.9	4.9	6.6	8.2	13.1	19.7	26.2	27.8
75°	4.9	4.9	4.9	6.6	11.5	18.0	22.9	24.6
77.5°	4.9	4.9	4.9	6.6	9.8	14.7	21.3	21.3
80°	3.3	4.9	4.9	4.9	8.2	11.5	16.4	18.0
82.5°	3.3	3.3	3.3	4.9	6.6	9.8	13.1	13.1
85°	3.3	3.3	3.3	3.3	4.9	6.6	8.2	8.2
87.5°	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)