

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: P1308486

Luminaire Tested: LDSQA3D20R559027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R559027D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

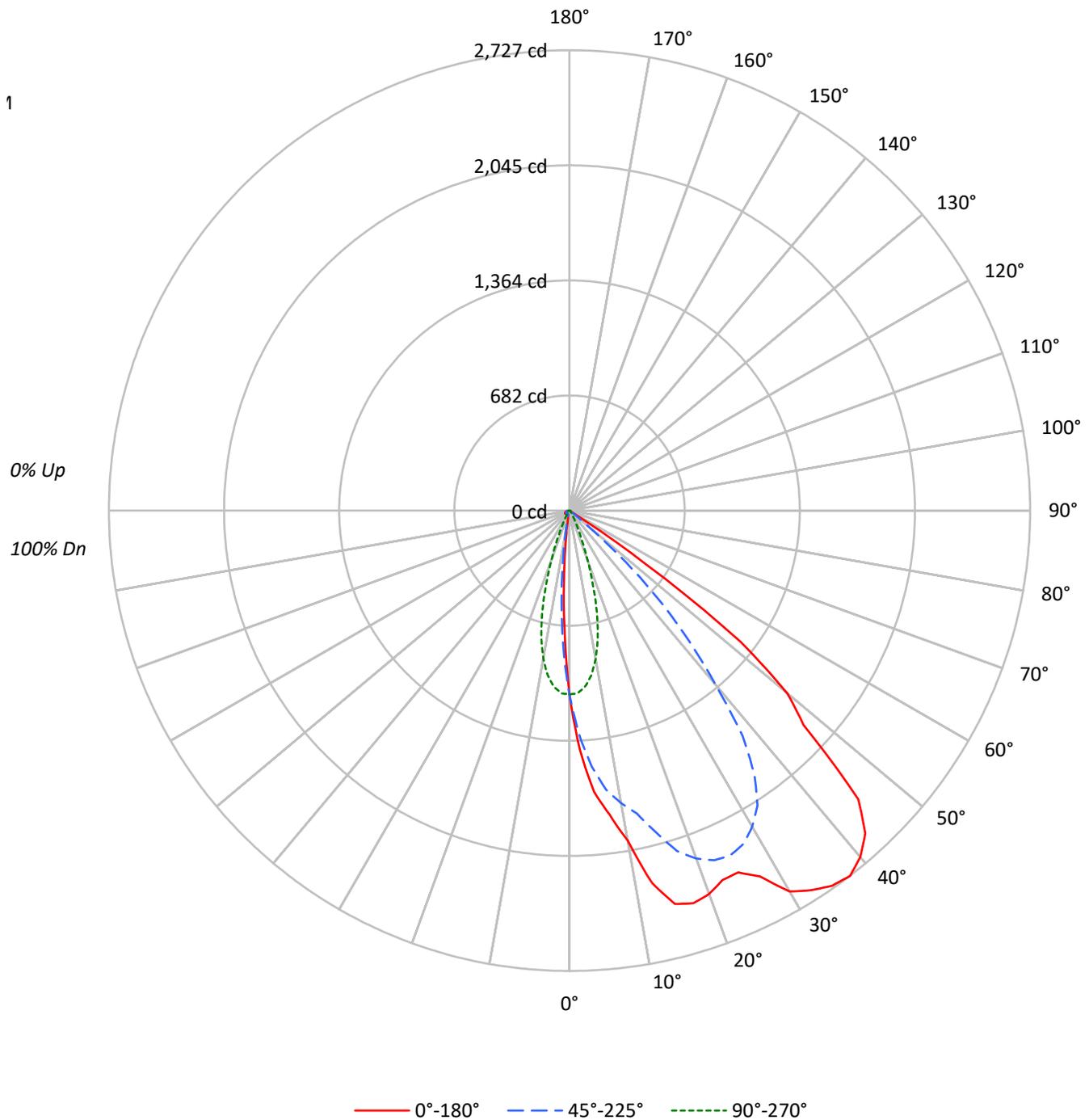
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1816.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
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	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	102	103	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	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	187447	187447	187447	187447	187447
5°	289073	263159	181075	92992	61096
10°	347311	307595	155870	23451	9374
15°	430037	351283	111383	6472	5064
20°	442922	401868	57530	4344	4344
25°	449337	428054	23088	3896	4504
30°	517926	430087	10043	4077	4713
35°	570121	400979	4310	4310	5298
40°	602182	301799	2473	4969	5665
45°	588976	184423	2314	5383	6917
50°	450553	39305	2545	6350	8038
55°	165294	1411	2852	7116	9008
60°	1619	1619	3272	8163	10333
65°	1915	1915	3871	8354	10921
70°	1611	2367	3978	9517	12689
75°	1065	2129	4192	10514	14706
80°	1587	3174	4661	10910	15670
85°	0	3162	6323	12449	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 588976 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	5.3
10°-20°	274.4	15.1
20°-30°	421.0	23.2
30°-40°	490.5	27.0
40°-50°	392.0	21.6
50°-60°	116.0	6.4
60°-70°	12.4	0.7
70°-80°	9.7	0.5
80°-90°	4.2	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°	791.2	43.6
0°-40°	1281.7	70.6
0°-60°	1789.7	98.6
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1088	1088	1088	1088	1088	
5°	1672	1522	1047	538	353	167
15°	2412	1970	625	36	28	666
25°	2365	2253	122	20	24	1123
35°	2712	1907	20	20	25	1689
45°	2418	757	10	22	28	1744
55°	550	5	10	24	30	583
65°	5	5	10	20	27	4
75°	2	3	6	16	22	2
85°	0	2	3	6	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°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1419.7	1419.7	1415.0	1416.6	1413.4	1396.1	1392.9	1370.8	1351.9	1331.4	1314.0
5°	1672.1	1675.3	1670.5	1661.1	1648.4	1635.8	1609.0	1588.5	1561.7	1522.2	1486.0
7.5°	1815.7	1812.5	1804.6	1801.5	1793.6	1779.4	1760.4	1738.4	1706.8	1667.4	1624.8
10°	1986.0	1959.2	1951.3	1938.7	1913.5	1885.1	1851.9	1822.0	1795.2	1758.9	1713.1
12.5°	2260.5	2255.8	2224.2	2200.6	2165.9	2102.8	2046.0	1979.7	1900.8	1837.7	1777.8
15°	2411.9	2415.1	2400.9	2382.0	2359.9	2307.8	2251.0	2173.7	2080.7	1970.2	1872.4
17.5°	2438.8	2443.5	2435.6	2427.7	2421.4	2391.4	2356.7	2301.5	2216.3	2113.8	1968.7
20°	2416.7	2426.1	2427.7	2437.2	2449.8	2437.2	2408.8	2370.9	2299.9	2192.7	2053.9
22.5°	2367.8	2385.1	2397.7	2430.9	2464.0	2464.0	2446.6	2416.7	2347.3	2241.6	2099.6
25°	2364.6	2367.8	2372.5	2426.1	2478.2	2489.2	2473.5	2441.9	2366.2	2252.6	2098.0
27.5°	2443.5	2423.0	2391.4	2445.1	2506.6	2516.0	2494.0	2451.4	2361.5	2227.4	2044.4
30°	2604.4	2558.6	2492.4	2531.8	2574.4	2563.4	2519.2	2451.4	2329.9	2162.7	1943.4
32.5°	2665.9	2640.7	2617.0	2659.6	2667.5	2621.7	2542.9	2441.9	2279.4	2071.2	1777.8
35°	2711.7	2713.2	2703.8	2711.7	2673.8	2609.1	2522.4	2389.9	2184.8	1907.2	1558.5
37.5°	2727.4	2730.6	2710.1	2681.7	2624.9	2550.8	2446.6	2295.2	2027.0	1681.6	1227.3
40°	2678.5	2669.1	2635.9	2596.5	2535.0	2459.3	2345.7	2120.1	1792.0	1342.4	957.5
42.5°	2591.8	2576.0	2536.6	2489.2	2424.6	2328.3	2146.9	1874.0	1456.0	1047.4	670.4
45°	2418.2	2407.2	2358.3	2323.6	2246.3	2121.7	1888.2	1544.3	1126.3	757.2	388.1
47.5°	1878.8	1880.3	1918.2	1935.5	1908.7	1809.3	1534.9	1173.6	821.9	451.2	130.9
50°	1681.6	1673.7	1635.8	1583.8	1497.0	1348.7	1126.3	829.7	485.9	146.7	18.9
52.5°	1276.2	1276.2	1257.2	1230.4	1138.9	995.4	761.9	459.0	170.4	25.2	4.7
55°	550.5	522.1	537.9	567.9	544.2	473.2	356.5	137.2	30.0	4.7	4.7
57.5°	7.9	18.9	28.4	45.7	61.5	74.1	39.4	14.2	4.7	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
62.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	3.2	3.2	3.2	4.7	3.2	4.7	4.7	4.7	4.7	4.7	4.7
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
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°	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1288.8	1262.0	1217.8	1083.7	944.9	817.1	725.6	690.9
5°	1445.0	1396.1	1321.9	1047.4	771.4	537.9	405.4	353.4
7.5°	1568.0	1504.9	1397.6	984.3	566.3	287.1	171.9	135.7
10°	1650.0	1580.6	1440.2	891.3	375.4	134.1	64.7	53.6
12.5°	1710.0	1623.2	1456.0	771.4	220.8	61.5	34.7	31.5
15°	1754.1	1642.1	1437.1	624.7	121.5	36.3	28.4	28.4
17.5°	1815.7	1651.6	1391.3	460.6	69.4	26.8	26.8	26.8
20°	1863.0	1651.6	1304.6	313.9	42.6	23.7	23.7	23.7
22.5°	1886.6	1626.4	1198.9	198.8	30.0	22.1	23.7	23.7
25°	1863.0	1564.8	1063.2	121.5	23.7	20.5	22.1	23.7
27.5°	1776.2	1441.8	881.8	77.3	18.9	20.5	22.1	23.7
30°	1631.1	1263.5	676.7	50.5	17.4	20.5	22.1	23.7
32.5°	1426.0	998.5	438.5	33.1	15.8	20.5	22.1	23.7
35°	1113.7	706.7	265.0	20.5	15.8	20.5	23.7	25.2
37.5°	834.5	471.7	143.5	12.6	15.8	20.5	23.7	25.2
40°	578.9	274.5	61.5	11.0	15.8	22.1	25.2	25.2
42.5°	336.0	108.8	15.8	9.5	15.8	22.1	25.2	26.8
45°	123.0	22.1	4.7	9.5	17.4	22.1	25.2	28.4
47.5°	17.4	4.7	4.7	9.5	17.4	22.1	26.8	28.4
50°	4.7	4.7	4.7	9.5	17.4	23.7	28.4	30.0
52.5°	4.7	4.7	4.7	9.5	17.4	23.7	28.4	30.0
55°	4.7	4.7	4.7	9.5	17.4	23.7	28.4	30.0
57.5°	4.7	4.7	4.7	9.5	17.4	23.7	28.4	30.0
60°	4.7	4.7	4.7	9.5	15.8	23.7	28.4	30.0
62.5°	4.7	4.7	4.7	9.5	15.8	22.1	26.8	28.4
65°	4.7	4.7	4.7	9.5	14.2	20.5	26.8	26.8
67.5°	4.7	4.7	4.7	7.9	14.2	20.5	25.2	26.8
70°	4.7	4.7	4.7	7.9	12.6	18.9	23.7	25.2
72.5°	4.7	4.7	4.7	6.3	11.0	17.4	22.1	23.7
75°	3.2	4.7	4.7	6.3	11.0	15.8	20.5	22.1
77.5°	3.2	4.7	4.7	4.7	9.5	12.6	17.4	18.9
80°	3.2	3.2	4.7	4.7	7.9	11.0	14.2	15.8
82.5°	3.2	3.2	3.2	4.7	6.3	7.9	11.0	11.0
85°	3.2	3.2	3.2	3.2	4.7	6.3	7.9	7.9
87.5°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)