

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: P1315970

Luminaire Tested: LDSQA3D20R509735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315970
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: LDSQA3D20R509735D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

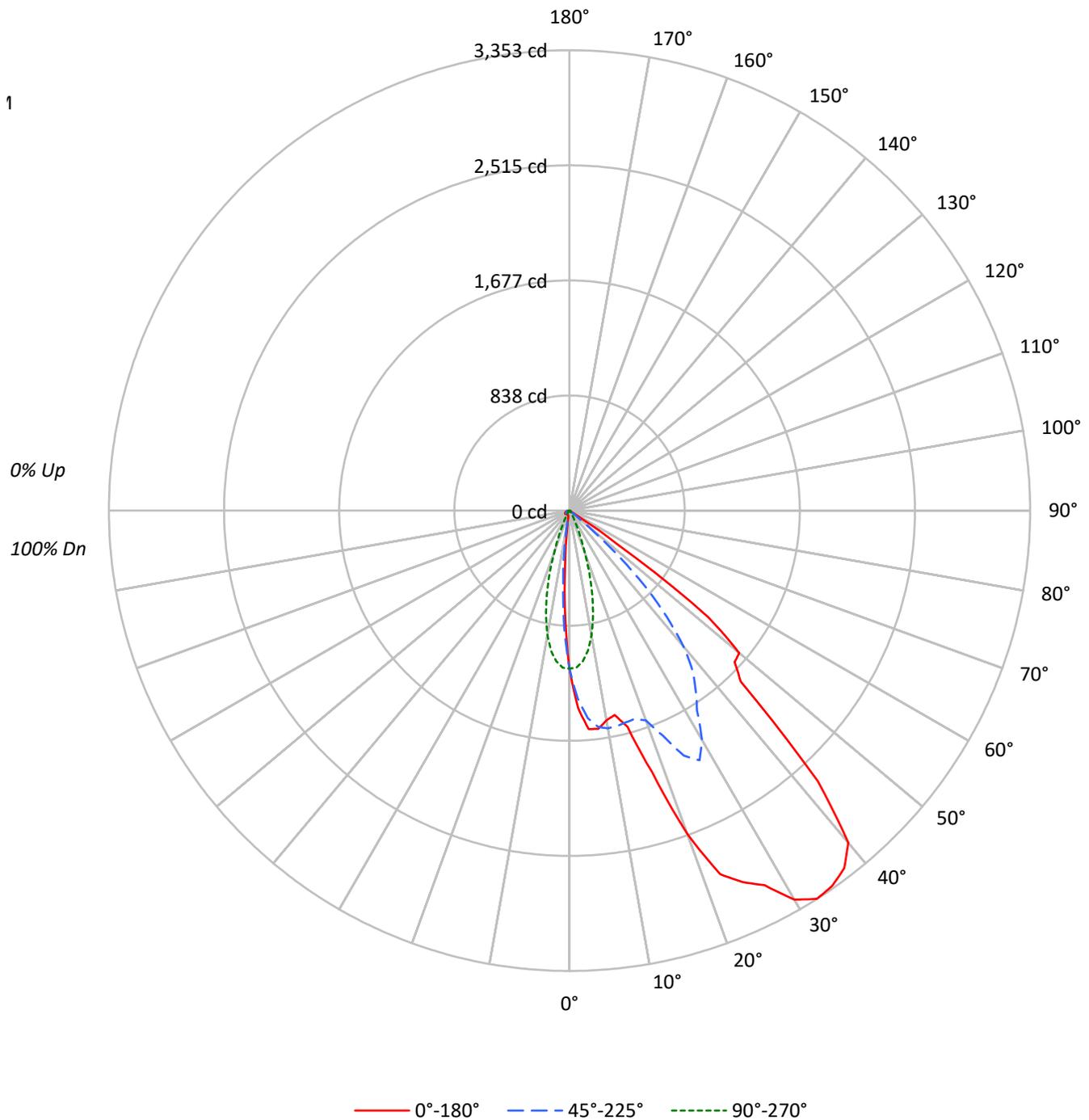
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1789.0 lumens
Efficiency: N/A
Efficacy: 62.1 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	92	95	94	92	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°	198090	198090	198090	198090	198090
5°	276194	262035	190393	91523	59384
10°	271133	281591	160907	19289	8272
15°	290751	284581	113772	6740	6454
20°	459142	298006	60059	5773	6066
25°	567363	374258	23943	5397	5986
30°	650469	383830	9705	5330	6264
35°	701272	336897	4310	5635	6959
40°	709871	290109	3192	6385	7801
45°	429030	188028	3069	6917	8817
50°	432280	32500	3376	8011	10128
55°	127731	1892	3783	8978	11350
60°	2170	2170	3789	9782	12469
65°	1915	1915	3871	10269	13489
70°	2367	2367	3978	11128	15056
75°	2129	2129	4192	11512	15704
80°	1587	3174	4661	10910	17158
85°	3162	6323	6323	12449	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 490042 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	5.2
10°-20°	230.9	12.9
20°-30°	432.6	24.2
30°-40°	517.3	28.9
40°-50°	370.7	20.7
50°-60°	114.2	6.4
60°-70°	14.9	0.8
70°-80°	10.9	0.6
80°-90°	4.5	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°	756.6	42.3
0°-40°	1273.9	71.2
0°-60°	1758.8	98.3
0°-90°	1789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1789.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1150	1150	1150	1150	1150	
5°	1598	1516	1101	529	344	148
15°	1631	1596	638	38	36	522
25°	2986	1970	126	28	32	1376
35°	3336	1602	20	27	33	2069
45°	1762	772	13	28	36	1618
55°	425	6	13	30	38	548
65°	5	5	10	25	33	5
75°	3	3	6	17	24	3
85°	2	3	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°	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2
2.5°	1438.5	1441.7	1446.4	1433.8	1425.9	1419.6	1408.6	1405.4	1378.6	1367.6	1356.6
5°	1597.6	1594.5	1597.6	1592.9	1589.8	1580.3	1570.9	1555.1	1537.8	1515.7	1490.5
7.5°	1602.4	1599.2	1605.5	1605.5	1611.8	1611.8	1611.8	1613.4	1603.9	1588.2	1566.1
10°	1550.4	1550.4	1556.7	1553.5	1564.6	1569.3	1580.3	1599.2	1608.7	1610.2	1603.9
12.5°	1523.6	1523.6	1525.2	1518.9	1522.0	1526.7	1539.3	1561.4	1583.5	1605.5	1618.1
15°	1630.7	1633.9	1611.8	1580.3	1556.7	1531.5	1523.6	1537.8	1561.4	1596.1	1624.4
17.5°	1994.7	1999.4	1975.8	1900.2	1827.7	1723.7	1630.7	1585.0	1559.8	1588.2	1626.0
20°	2505.2	2487.8	2446.9	2366.5	2261.0	2100.3	1955.3	1808.8	1668.5	1626.0	1638.6
22.5°	2866.0	2859.7	2826.6	2736.8	2645.4	2495.7	2311.4	2106.6	1903.3	1774.1	1706.4
25°	2985.7	2981.0	2951.1	2897.5	2847.1	2733.6	2568.2	2361.8	2149.1	1969.5	1799.3
27.5°	3075.5	3069.2	3022.0	2962.1	2910.1	2795.1	2643.8	2487.8	2292.5	2049.8	1788.3
30°	3270.9	3253.6	3187.4	3080.3	2981.0	2821.9	2654.9	2461.1	2196.4	1930.1	1674.8
32.5°	3352.8	3343.4	3286.7	3200.0	3091.3	2883.3	2629.6	2305.1	1956.9	1726.8	1540.9
35°	3335.5	3321.3	3263.0	3163.8	3031.4	2831.3	2492.6	2046.7	1763.1	1602.4	1392.8
37.5°	3283.5	3263.0	3193.7	3077.1	2916.4	2654.9	2212.1	1837.1	1654.4	1473.2	1191.1
40°	3157.5	3124.4	3044.0	2922.7	2762.0	2418.5	1956.9	1711.1	1540.9	1290.4	965.8
42.5°	2675.3	2658.0	2697.4	2676.9	2535.1	2130.2	1775.7	1596.1	1361.3	1043.0	699.6
45°	1761.5	1791.4	1862.3	1983.7	2012.0	1832.4	1627.6	1407.0	1120.2	772.0	403.3
47.5°	1630.7	1624.4	1641.8	1665.4	1670.1	1594.5	1408.6	1162.8	831.9	441.2	111.9
50°	1613.4	1603.9	1589.8	1561.4	1501.5	1355.0	1143.9	847.7	480.6	121.3	7.9
52.5°	1274.6	1265.2	1265.2	1224.2	1147.0	1005.2	789.4	466.4	133.9	7.9	6.3
55°	425.4	453.8	449.0	447.5	482.1	444.3	340.3	119.7	11.0	6.3	6.3
57.5°	7.9	7.9	7.9	14.2	22.1	31.5	18.9	9.5	6.3	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
62.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7	4.7
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7
77.5°	1.6	1.6	1.6	1.6	3.2	3.2	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	3.2	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
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°	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2
2.5°	1331.4	1309.3	1266.8	1145.4	1011.5	858.7	754.7	742.1
5°	1451.1	1418.0	1348.7	1101.3	795.7	529.4	393.9	343.5
7.5°	1529.9	1485.8	1400.7	1028.9	579.8	278.9	149.7	119.7
10°	1577.2	1536.2	1427.5	920.1	368.7	110.3	50.4	47.3
12.5°	1602.4	1563.0	1436.9	789.4	208.0	50.4	39.4	39.4
15°	1619.7	1577.2	1422.8	638.1	104.0	37.8	36.2	36.2
17.5°	1627.6	1575.6	1381.8	480.6	55.1	34.7	34.7	34.7
20°	1632.3	1558.3	1306.2	327.7	37.8	31.5	33.1	33.1
22.5°	1637.0	1515.7	1206.9	208.0	29.9	29.9	31.5	31.5
25°	1627.6	1441.7	1066.7	126.0	26.8	28.4	29.9	31.5
27.5°	1559.8	1329.8	896.5	77.2	23.6	26.8	29.9	31.5
30°	1443.2	1165.9	699.6	48.8	22.1	26.8	29.9	31.5
32.5°	1292.0	978.4	499.5	29.9	22.1	26.8	29.9	31.5
35°	1088.7	748.4	324.6	20.5	22.1	26.8	31.5	33.1
37.5°	860.3	523.1	174.9	15.8	22.1	26.8	31.5	33.1
40°	619.2	313.5	63.0	14.2	20.5	28.4	33.1	34.7
42.5°	362.4	116.6	11.0	12.6	20.5	28.4	33.1	34.7
45°	104.0	12.6	6.3	12.6	20.5	28.4	34.7	36.2
47.5°	7.9	4.7	6.3	12.6	20.5	28.4	34.7	37.8
50°	4.7	4.7	4.7	12.6	20.5	29.9	36.2	37.8
52.5°	6.3	6.3	6.3	12.6	20.5	29.9	36.2	37.8
55°	6.3	6.3	6.3	12.6	20.5	29.9	36.2	37.8
57.5°	6.3	6.3	6.3	12.6	20.5	28.4	36.2	37.8
60°	6.3	6.3	6.3	11.0	18.9	28.4	34.7	36.2
62.5°	6.3	6.3	6.3	11.0	18.9	26.8	34.7	34.7
65°	6.3	6.3	6.3	9.5	17.3	25.2	31.5	33.1
67.5°	6.3	6.3	6.3	9.5	15.8	23.6	29.9	31.5
70°	4.7	6.3	6.3	7.9	14.2	22.1	28.4	29.9
72.5°	4.7	4.7	6.3	7.9	12.6	18.9	25.2	26.8
75°	4.7	4.7	4.7	6.3	11.0	17.3	22.1	23.6
77.5°	4.7	4.7	4.7	6.3	9.5	14.2	20.5	20.5
80°	3.2	4.7	4.7	4.7	7.9	11.0	15.8	17.3
82.5°	3.2	3.2	3.2	4.7	6.3	9.5	12.6	12.6
85°	3.2	3.2	3.2	3.2	4.7	6.3	7.9	7.9
87.5°	1.6	3.2	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)