

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: P1319573

Luminaire Tested: LDSQA3D20R509835D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509835D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

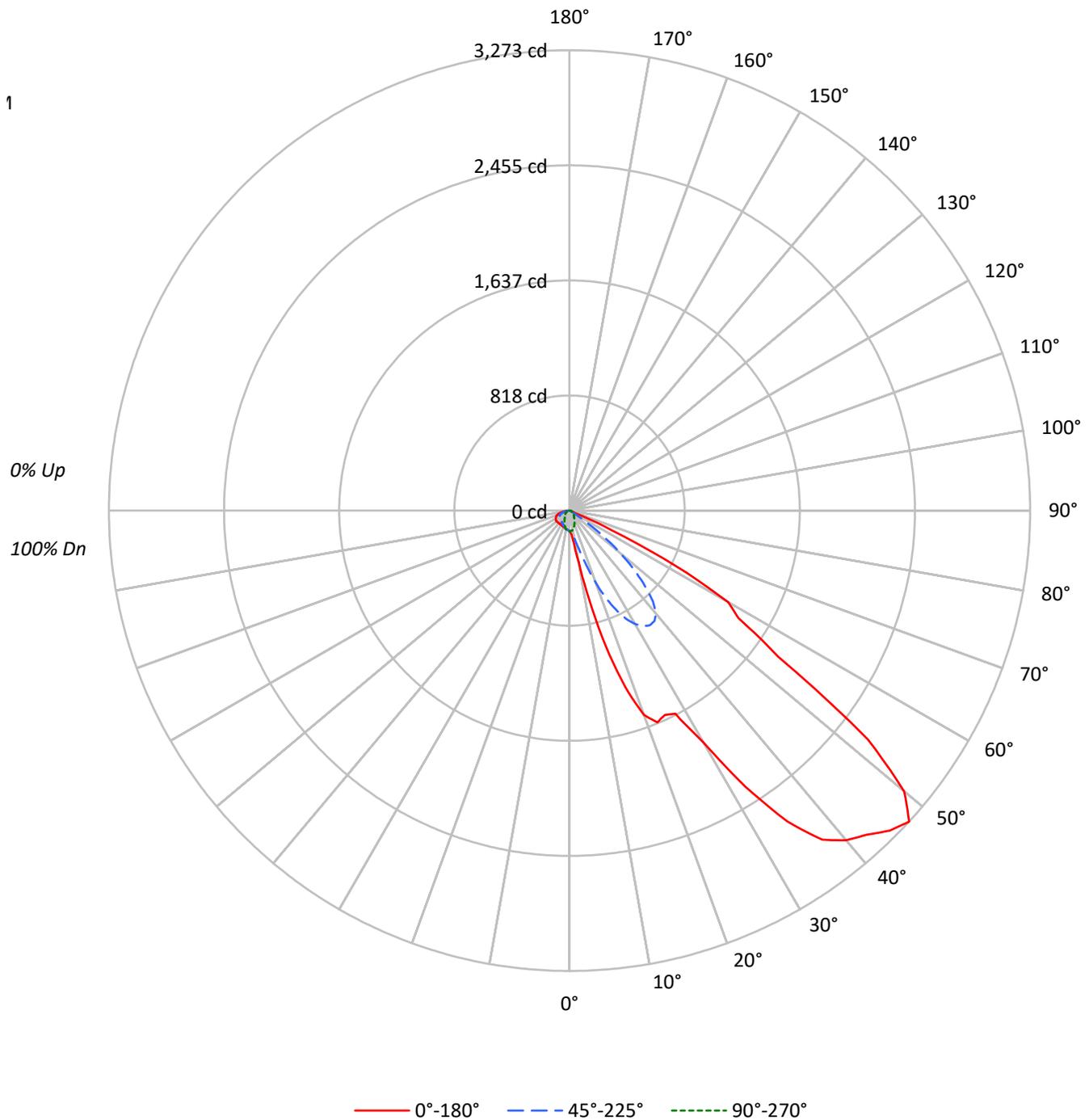
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1846.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25265	25265	25265	25265	25265
5°	30047	28110	25085	23979	23702
10°	64688	34853	23976	23137	23416
15°	179100	57145	21610	22180	23036
20°	283161	100233	18694	21333	22506
25°	304499	147252	16057	20599	22727
30°	377964	184865	13960	20284	23466
35°	567199	209173	12068	20457	24809
40°	687906	215086	10746	21156	26169
45°	783677	184472	10497	22529	28740
50°	831765	127294	10690	24355	32045
55°	543382	51225	10539	26333	35431
60°	448158	8783	10437	28555	38991
65°	135131	4564	9740	30523	42870
70°	5640	4834	9618	31321	46578
75°	5323	5323	9582	31807	50904
80°	4761	4761	9521	31638	52168
85°	3162	6323	12647	31419	50389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 834461 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.3	0.8
10°-20°	87.4	4.7
20°-30°	224.7	12.2
30°-40°	403.6	21.9
40°-50°	539.2	29.2
50°-60°	410.6	22.2
60°-70°	124.6	6.8
70°-80°	29.8	1.6
80°-90°	10.8	0.6
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°	327.4	17.7
0°-40°	731.0	39.6
0°-60°	1680.8	91.1
0°-90°	1846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	147	147	147	147	147	
5°	174	163	145	139	137	22
15°	1004	320	121	124	129	296
25°	1602	775	84	108	120	765
35°	2698	995	57	97	118	1656
45°	3218	757	43	92	118	2460
55°	1810	171	35	88	118	1800
65°	332	11	24	75	105	459
75°	8	8	14	48	76	8
85°	2	3	6	16	26	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7
2.5°	156.3	156.3	156.3	156.3	156.3	156.3	154.7	154.7	154.7	151.5	148.3
5°	173.8	175.4	173.8	173.8	170.6	170.6	167.4	167.4	162.6	153.1	145.1
7.5°	228.0	226.4	224.8	218.4	213.7	202.5	197.7	189.7	175.4	153.1	141.9
10°	369.9	360.3	354.0	339.6	309.3	290.2	264.7	239.2	199.3	153.1	137.1
12.5°	642.6	641.0	621.8	574.0	531.0	472.0	409.8	347.6	245.5	149.9	130.7
15°	1004.5	990.2	963.1	907.2	830.7	738.2	626.6	516.6	320.5	145.1	121.2
17.5°	1313.8	1296.3	1275.6	1219.8	1132.1	1015.7	881.7	730.3	422.5	138.7	111.6
20°	1545.0	1533.9	1516.3	1471.7	1388.8	1283.5	1133.7	950.3	546.9	130.7	102.0
22.5°	1629.5	1627.9	1631.1	1615.2	1573.7	1490.8	1347.3	1156.0	669.7	121.2	92.5
25°	1602.4	1600.8	1621.6	1642.3	1651.9	1618.4	1508.4	1321.8	774.9	113.2	84.5
27.5°	1627.9	1623.2	1613.6	1616.8	1643.9	1663.0	1612.0	1449.4	865.8	102.0	76.5
30°	1900.6	1873.5	1830.4	1757.1	1702.9	1698.1	1675.8	1549.8	929.6	90.9	70.2
32.5°	2326.3	2292.8	2214.7	2079.2	1950.0	1851.2	1781.0	1634.3	974.2	79.7	62.2
35°	2697.8	2673.9	2583.0	2449.1	2264.1	2079.2	1951.6	1758.7	994.9	70.2	57.4
37.5°	2949.8	2940.2	2850.9	2707.4	2519.3	2300.8	2131.8	1886.2	990.2	59.0	52.6
40°	3059.8	3031.1	2956.1	2835.0	2645.2	2449.1	2270.5	1967.6	956.7	47.8	47.8
42.5°	3125.1	3093.3	3011.9	2897.1	2710.6	2501.7	2286.5	1932.5	877.0	38.3	46.2
45°	3217.6	3184.1	3077.3	2954.5	2766.4	2524.0	2224.3	1808.1	757.4	28.7	43.1
47.5°	3273.4	3251.1	3171.4	3048.6	2820.6	2492.1	2080.8	1691.7	625.0	22.3	41.5
50°	3104.4	3082.1	3023.1	2938.6	2785.5	2385.3	1954.8	1503.6	475.1	17.5	39.9
52.5°	2672.3	2691.5	2702.6	2726.5	2614.9	2146.1	1766.7	1353.7	320.5	14.4	36.7
55°	1809.7	1838.4	1870.3	1966.0	2096.7	1910.2	1569.0	1170.3	170.6	14.4	35.1
57.5°	1422.3	1412.7	1403.1	1396.7	1498.8	1575.3	1379.2	935.9	73.3	14.4	31.9
60°	1301.1	1272.4	1253.2	1258.0	1309.1	1278.8	1092.2	610.7	25.5	14.4	30.3
62.5°	853.0	875.4	918.4	991.8	956.7	821.1	634.6	242.4	12.8	14.4	27.1
65°	331.6	320.5	331.6	352.4	304.5	226.4	141.9	43.1	11.2	12.8	23.9
67.5°	44.6	39.9	30.3	19.1	17.5	15.9	12.8	11.2	11.2	12.8	22.3
70°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	9.6	9.6	11.2	19.1
72.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	11.2	15.9
75°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.6	14.4
77.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.0	11.2
80°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.4	9.6
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	6.4	8.0
85°	1.6	3.2	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.8	6.4
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.8	4.8
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):

	112.5°	135°	157.5°	180°
0°	146.7	146.7	146.7	146.7
2.5°	145.1	141.9	141.9	141.9
5°	141.9	138.7	138.7	137.1
7.5°	137.1	135.5	135.5	135.5
10°	133.9	132.3	133.9	133.9
12.5°	127.6	129.2	130.7	130.7
15°	121.2	124.4	127.6	129.2
17.5°	114.8	121.2	124.4	126.0
20°	108.4	116.4	121.2	122.8
22.5°	103.6	111.6	118.0	121.2
25°	97.3	108.4	116.4	119.6
27.5°	90.9	103.6	113.2	118.0
30°	86.1	102.0	113.2	118.0
32.5°	81.3	98.9	111.6	116.4
35°	78.1	97.3	111.6	118.0
37.5°	74.9	95.7	111.6	116.4
40°	73.3	94.1	111.6	116.4
42.5°	71.8	94.1	111.6	118.0
45°	68.6	92.5	111.6	118.0
47.5°	67.0	92.5	111.6	118.0
50°	65.4	90.9	111.6	119.6
52.5°	63.8	89.3	111.6	119.6
55°	60.6	87.7	110.0	118.0
57.5°	59.0	86.1	108.4	114.8
60°	55.8	82.9	105.2	113.2
62.5°	52.6	79.7	102.0	108.4
65°	47.8	74.9	97.3	105.2
67.5°	43.1	68.6	92.5	100.5
70°	38.3	62.2	86.1	92.5
72.5°	33.5	55.8	79.7	84.5
75°	28.7	47.8	70.2	76.5
77.5°	23.9	41.5	59.0	63.8
80°	17.5	31.9	47.8	52.6
82.5°	14.4	23.9	35.1	38.3
85°	9.6	15.9	22.3	25.5
87.5°	4.8	8.0	11.2	12.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)