

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: P1320449

Luminaire Tested: LDSQA3D20R509840D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

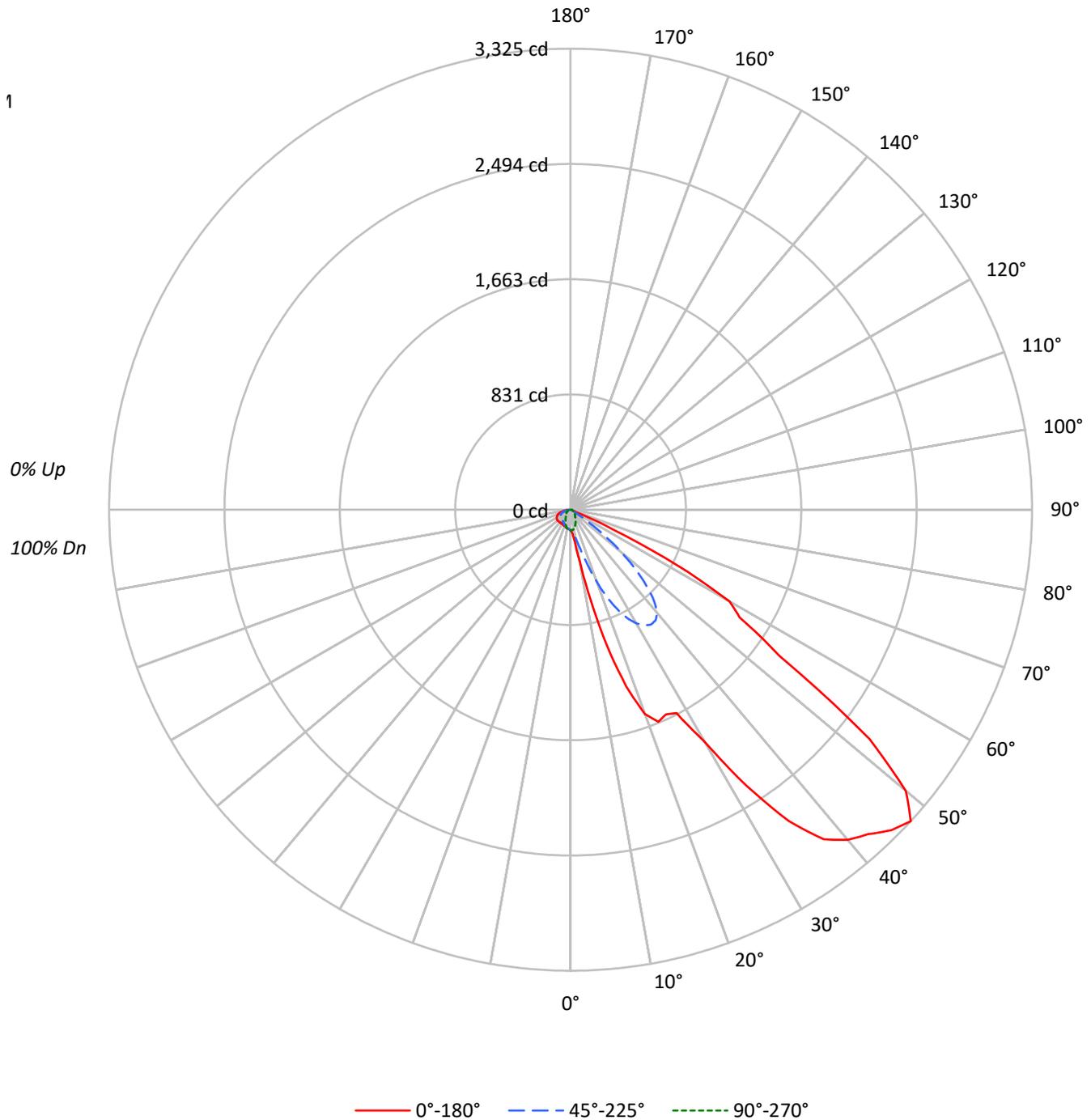
Test Method: LM-79-2019  
Report Number: P1320449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509840D010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1875.0 lumens  
Efficiency: N/A  
Efficacy: 68.4 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 (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

TEST NUMBER: P1320449  
CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCA45R 1MW

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	25661	25661	25661	25661	25661
5°	30513	28560	25483	24359	24082
10°	65702	35396	24361	23504	23784
15°	181917	58036	21948	22519	23393
20°	287614	101810	18987	21663	22854
25°	309287	149570	16304	20922	23088
30°	383910	187769	14179	20602	23824
35°	576113	212474	12257	20772	25187
40°	698698	218458	10926	21493	26574
45°	796001	187370	10644	22870	29178
50°	844840	129303	10851	24730	32554
55°	551910	52035	10689	26753	35971
60°	455184	8921	10609	29002	39611
65°	137291	4605	9903	31012	43563
70°	5690	4884	9769	31824	47283
75°	5390	5390	9715	32339	51703
80°	4860	4860	9620	32134	52962
85°	3162	6323	12844	32012	51179

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 847589 cd/sqm



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CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCA45R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.5	0.8
10°-20°	88.8	4.7
20°-30°	228.2	12.2
30°-40°	410.0	21.9
40°-50°	547.6	29.2
50°-60°	417.1	22.2
60°-70°	126.6	6.8
70°-80°	30.3	1.6
80°-90°	10.9	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°	332.5	17.7
0°-40°	742.5	39.6
0°-60°	1707.2	91.1
0°-90°	1875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	176	165	147	141	139	23
15°	1020	326	123	126	131	300
25°	1628	787	86	110	122	777
35°	2740	1011	58	99	120	1682
45°	3268	769	44	94	120	2499
55°	1838	173	36	89	120	1829
65°	337	11	24	76	107	466
75°	8	8	15	49	78	9
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°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	158.7	158.7	158.7	158.7	158.7	158.7	157.1	157.1	157.1	153.9	150.6
5°	176.5	178.1	176.5	176.5	173.3	173.3	170.0	170.0	165.2	155.5	147.4
7.5°	231.6	230.0	228.4	221.9	217.0	205.7	200.8	192.7	178.1	155.5	144.1
10°	375.7	366.0	359.5	345.0	314.2	294.8	268.8	242.9	202.4	155.5	139.3
12.5°	652.7	651.0	631.6	583.0	539.3	479.4	416.2	353.1	249.4	152.2	132.8
15°	1020.3	1005.7	978.2	921.5	843.8	749.8	636.5	524.7	325.5	147.4	123.1
17.5°	1334.5	1316.7	1295.6	1238.9	1149.9	1031.6	895.6	741.7	429.2	140.9	113.4
20°	1569.3	1558.0	1540.2	1494.8	1410.6	1303.7	1151.5	965.2	555.5	132.8	103.6
22.5°	1655.1	1653.5	1656.8	1640.6	1598.5	1514.2	1368.5	1174.1	680.2	123.1	93.9
25°	1627.6	1626.0	1647.0	1668.1	1677.8	1643.8	1532.1	1342.6	787.1	115.0	85.8
27.5°	1653.5	1648.7	1638.9	1642.2	1669.7	1689.2	1637.3	1472.1	879.4	103.6	77.7
30°	1930.5	1902.9	1859.2	1784.7	1729.6	1724.8	1702.1	1574.2	944.2	92.3	71.3
32.5°	2362.9	2328.9	2249.5	2111.8	1980.7	1880.3	1809.0	1660.0	989.5	81.0	63.2
35°	2740.2	2715.9	2623.6	2487.6	2299.7	2111.8	1982.3	1786.3	1010.6	71.3	58.3
37.5°	2996.1	2986.4	2895.7	2749.9	2558.8	2337.0	2165.3	1915.9	1005.7	59.9	53.4
40°	3107.8	3078.7	3002.6	2879.5	2686.8	2487.6	2306.2	1998.5	971.7	48.6	48.6
42.5°	3174.2	3141.9	3059.3	2942.7	2753.2	2541.0	2322.4	1962.8	890.7	38.9	47.0
45°	3268.2	3234.2	3125.7	3001.0	2809.9	2563.7	2259.2	1836.5	769.3	29.2	43.7
47.5°	3324.9	3302.2	3221.2	3096.5	2864.9	2531.3	2113.5	1718.3	634.8	22.7	42.1
50°	3153.2	3130.5	3070.6	2984.8	2829.3	2422.8	1985.5	1527.2	482.6	17.8	40.5
52.5°	2714.3	2733.7	2745.1	2769.4	2656.0	2179.9	1794.4	1375.0	325.5	14.6	37.2
55°	1838.1	1867.3	1899.7	1996.9	2129.7	1940.2	1593.6	1188.7	173.3	14.6	35.6
57.5°	1444.6	1434.9	1425.2	1418.7	1522.3	1600.1	1400.9	950.7	74.5	14.6	32.4
60°	1321.5	1292.4	1272.9	1277.8	1329.6	1298.8	1109.4	620.3	25.9	14.6	30.8
62.5°	866.4	889.1	932.8	1007.3	971.7	834.0	644.6	246.2	13.0	14.6	27.5
65°	336.9	325.5	336.9	357.9	309.3	230.0	144.1	43.7	11.3	13.0	24.3
67.5°	45.3	40.5	30.8	19.4	17.8	16.2	13.0	11.3	11.3	13.0	22.7
70°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	9.7	9.7	11.3	19.4
72.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	11.3	16.2
75°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.7	14.6
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.1	11.3
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	9.7
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	6.5	8.1
85°	1.6	3.2	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.9	6.5
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1320449

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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	149.0	149.0	149.0	149.0
2.5°	147.4	144.1	144.1	144.1
5°	144.1	140.9	140.9	139.3
7.5°	139.3	137.7	137.7	137.7
10°	136.0	134.4	136.0	136.0
12.5°	129.6	131.2	132.8	132.8
15°	123.1	126.3	129.6	131.2
17.5°	116.6	123.1	126.3	127.9
20°	110.1	118.2	123.1	124.7
22.5°	105.3	113.4	119.8	123.1
25°	98.8	110.1	118.2	121.5
27.5°	92.3	105.3	115.0	119.8
30°	87.5	103.6	115.0	119.8
32.5°	82.6	100.4	113.4	118.2
35°	79.4	98.8	113.4	119.8
37.5°	76.1	97.2	113.4	118.2
40°	74.5	95.6	113.4	118.2
42.5°	72.9	95.6	113.4	119.8
45°	69.6	93.9	113.4	119.8
47.5°	68.0	93.9	113.4	119.8
50°	66.4	92.3	113.4	121.5
52.5°	64.8	90.7	113.4	121.5
55°	61.5	89.1	111.7	119.8
57.5°	59.9	87.5	110.1	116.6
60°	56.7	84.2	106.9	115.0
62.5°	53.4	81.0	103.6	110.1
65°	48.6	76.1	98.8	106.9
67.5°	43.7	69.6	93.9	102.0
70°	38.9	63.2	87.5	93.9
72.5°	34.0	56.7	81.0	85.8
75°	29.2	48.6	71.3	77.7
77.5°	24.3	42.1	59.9	64.8
80°	17.8	32.4	48.6	53.4
82.5°	14.6	24.3	35.6	38.9
85°	9.7	16.2	22.7	25.9
87.5°	4.9	8.1	11.3	13.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)