

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: P1307833

Luminaire Tested: LDSQA3D05R409027DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

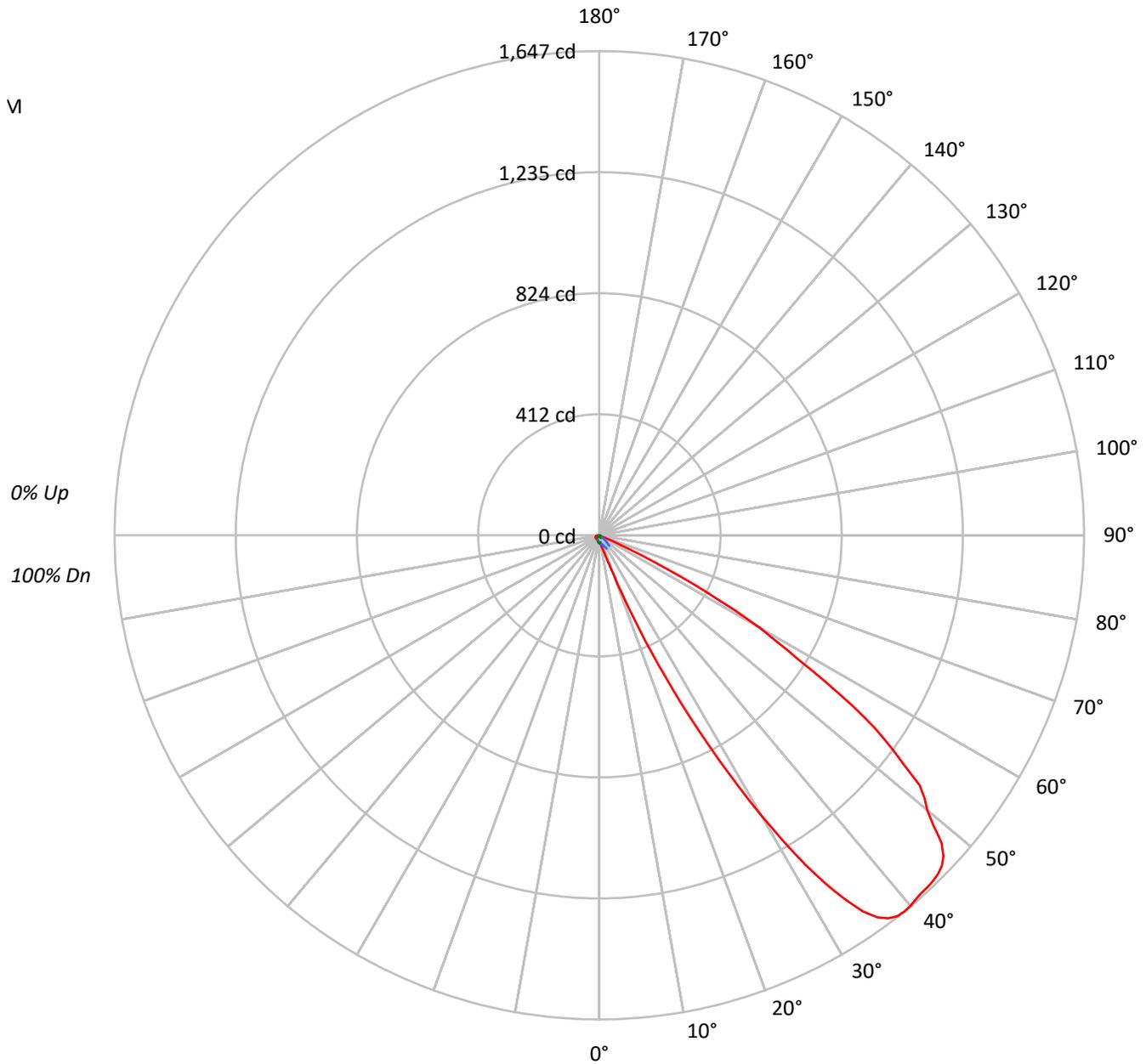
Test Method: LM-79-2019  
Report Number: P1307833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R409027DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 509.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	99	107	104	100	97	99	97	94	96	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	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	62	62	62	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	37	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	26	26	26	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	23	23	23	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	19	19	19	18

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

	0°	45°	90°	135°	180°
0°	4512	4512	4512	4512	4512
5°	5014	4841	4443	4045	3959
10°	6051	5141	4092	3672	3603
15°	9913	5581	3495	3245	3334
20°	26208	6598	2914	2914	3171
25°	101094	8171	2318	2660	3116
30°	218076	10878	1849	2605	3063
35°	328256	12867	1577	2565	3154
40°	369808	12927	1371	2630	3372
45°	396539	10010	1242	2728	3653
50°	389759	6270	1125	2894	4019
55°	342898	3093	1111	3243	4504
60°	217035	654	1274	3548	4994
65°	44378	204	1345	3790	5542
70°	957	252	1410	4230	6345
75°	932	599	1530	4658	7187
80°	893	496	1884	5058	8331
85°	988	988	3754	5533	9287

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47°  
 Luminance: 403714 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	8.1	1.6
20°-30°	39.5	7.8
30°-40°	128.6	25.3
40°-50°	177.3	34.8
50°-60°	123.5	24.3
60°-70°	23.4	4.6
70°-80°	4.2	0.8
80°-90°	2.0	0.4
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°	50.1	9.8
0°-40°	178.6	35.1
0°-60°	479.4	94.2
0°-90°	509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	29	28	26	23	23	3
15°	56	31	20	18	19	20
25°	532	43	12	14	16	274
35°	1561	61	8	12	15	943
45°	1628	41	5	11	15	1238
55°	1142	10	4	11	15	976
65°	109	0	3	9	14	193
75°	1	1	2	7	11	1
85°	0	0	2	3	5	0
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°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
2.5°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	26.6	26.2
5°	29.0	29.0	29.0	29.0	28.5	28.5	28.5	28.0	28.0	27.1	25.7
7.5°	30.9	30.9	30.9	30.9	30.4	29.9	29.4	29.4	29.0	26.6	24.8
10°	34.6	34.6	34.1	33.7	33.2	32.3	31.8	30.9	29.4	26.2	23.4
12.5°	42.1	41.1	40.7	39.7	38.3	36.5	34.6	33.2	29.9	25.2	22.0
15°	55.6	54.7	52.8	50.0	47.2	43.5	40.2	36.9	31.3	23.8	19.6
17.5°	79.5	76.7	73.9	69.2	62.2	55.6	48.6	42.5	33.2	22.4	17.8
20°	143.0	141.2	124.3	111.3	90.2	75.3	61.2	51.0	36.0	21.0	15.9
22.5°	295.0	275.3	247.7	202.9	158.0	116.4	84.6	64.0	38.8	19.2	14.0
25°	532.0	501.1	441.7	355.3	262.2	185.6	122.5	83.7	43.0	17.3	12.2
27.5°	805.4	774.1	682.0	562.8	410.9	280.0	174.8	110.8	48.6	15.4	10.8
30°	1096.6	1070.0	953.1	788.1	579.2	392.2	234.2	138.4	54.7	13.6	9.3
31°	1214.0	1179.8	1053.6	877.9	658.2	438.5	258.0	150.1	57.0	13.1	8.9
32°	1321.9	1283.1	1152.3	963.9	722.2	488.5	284.2	160.3	58.9	12.2	8.4
33°	1415.0	1369.6	1243.4	1045.2	792.8	535.2	311.3	170.2	60.3	11.2	7.9
34°	1494.0	1454.7	1319.1	1127.0	855.4	580.1	338.0	180.0	61.2	10.8	7.5
35°	1561.3	1525.7	1391.6	1189.2	916.7	623.6	362.3	189.3	61.2	9.8	7.5
36°	1606.6	1575.8	1454.2	1252.8	968.1	660.5	382.8	197.7	61.2	8.9	7.0
37°	1631.4	1601.5	1495.4	1305.1	1018.6	697.0	401.5	204.3	60.8	8.4	6.5
38°	1644.0	1617.8	1525.7	1347.6	1053.6	723.1	417.9	209.4	60.3	7.5	6.5
39°	1647.3	1625.3	1544.9	1378.5	1087.7	749.3	429.6	212.2	58.9	7.0	6.1
40°	1644.9	1625.8	1555.2	1406.1	1113.9	769.9	438.0	213.2	57.5	6.1	6.1
41°	1640.3	1625.3	1562.7	1425.2	1135.0	783.0	441.3	211.3	55.6	5.1	5.6
42°	1636.1	1619.7	1565.9	1438.3	1149.4	789.5	440.8	207.5	52.8	4.7	5.6
43°	1636.1	1617.4	1566.4	1446.7	1156.5	790.0	435.2	200.5	49.1	4.2	5.1
44°	1633.3	1616.0	1568.7	1452.4	1158.3	785.8	426.3	193.1	44.9	3.7	5.1
45°	1628.1	1609.9	1568.3	1452.8	1155.1	775.5	411.8	183.2	41.1	2.8	5.1
46°	1618.3	1601.9	1564.1	1449.5	1145.2	760.5	394.5	173.4	36.9	2.3	4.7
47°	1598.7	1586.0	1552.9	1438.3	1130.3	738.6	374.0	162.2	33.7	1.9	4.7
48°	1565.0	1556.1	1533.7	1413.6	1101.8	711.5	352.0	150.1	30.4	1.9	4.7
49°	1503.3	1496.3	1483.2	1373.8	1065.3	678.3	328.1	136.5	27.1	1.4	4.7
50°	1454.7	1447.2	1420.6	1307.0	1013.0	636.2	302.0	122.9	23.4	0.9	4.2
51°	1422.4	1410.3	1368.2	1229.4	936.8	580.1	273.5	109.4	19.6	0.9	4.2
52°	1381.8	1363.5	1311.2	1159.7	867.1	524.0	242.6	95.8	17.3	0.9	4.2
53°	1296.7	1290.2	1238.3	1084.9	797.5	470.3	210.8	84.6	15.0	0.9	4.2
54°	1222.4	1212.6	1142.0	981.2	721.7	410.4	178.1	74.8	12.6	0.9	4.2
55°	1142.0	1122.8	1060.2	893.8	632.9	355.3	146.8	64.5	10.3	0.9	3.7
56°	1040.5	1023.7	956.4	800.3	551.1	299.2	122.9	52.8	7.9	0.9	3.7
57°	917.1	901.7	849.8	685.3	466.0	244.5	100.0	42.5	6.1	0.9	3.7
58°	797.9	780.6	721.3	575.0	376.3	194.0	83.7	34.6	4.7	0.9	3.7
59°	706.3	682.9	606.3	482.9	294.5	147.2	66.4	27.6	3.3	0.9	3.7
60°	630.1	611.0	531.5	402.0	230.9	108.4	49.1	21.0	1.9	0.9	3.7
62.5°	365.1	359.9	288.4	207.1	108.9	50.5	24.3	9.8	0.9	1.4	3.7
65°	108.9	94.9	73.9	43.9	28.0	16.8	8.9	3.3	0.5	1.4	3.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	3.3	3.3	3.3	3.3	3.3	3.3	1.9	0.9	0.5	1.4	3.3
70°	1.9	1.4	1.4	1.4	1.4	0.9	0.9	0.5	0.5	1.4	2.8
72.5°	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.5	0.9	1.4	2.3
75°	1.4	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.9	1.4	2.3
77.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.9	1.4	2.3
80°	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.4	1.4
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°	26.2	26.2	26.2	26.2
2.5°	25.2	24.8	24.3	24.3
5°	24.3	23.4	23.4	22.9
7.5°	22.9	22.0	22.0	22.0
10°	21.5	21.0	21.0	20.6
12.5°	19.6	19.6	19.6	19.6
15°	18.2	18.2	18.7	18.7
17.5°	16.4	16.8	17.8	18.2
20°	15.0	15.9	16.8	17.3
22.5°	14.0	15.0	16.4	16.8
25°	12.6	14.0	15.9	16.4
27.5°	11.7	13.6	15.0	15.9
30°	10.8	13.1	14.5	15.4
31°	10.8	12.6	14.5	15.4
32°	10.3	12.2	14.5	15.0
33°	10.3	12.2	14.5	15.0
34°	9.8	12.2	14.0	15.0
35°	9.8	12.2	14.0	15.0
36°	9.3	11.7	14.0	15.0
37°	9.3	11.7	14.0	15.0
38°	8.9	11.7	14.0	15.0
39°	8.9	11.7	14.0	15.0
40°	8.9	11.7	14.0	15.0
41°	8.4	11.7	14.0	15.0
42°	8.4	11.7	14.0	15.0
43°	8.4	11.2	14.0	15.0
44°	8.4	11.2	14.0	15.0
45°	7.9	11.2	14.0	15.0
46°	7.9	11.2	14.0	15.0
47°	7.9	11.2	14.0	15.0
48°	7.9	11.2	14.0	15.0
49°	7.9	11.2	14.0	15.0
50°	7.5	10.8	14.0	15.0
51°	7.5	10.8	14.0	15.0
52°	7.5	10.8	14.0	15.0
53°	7.5	10.8	14.0	15.0
54°	7.0	10.8	14.0	15.0
55°	7.0	10.8	14.0	15.0
56°	7.0	10.8	14.0	14.5
57°	7.0	10.8	13.6	14.5
58°	7.0	10.3	13.6	14.5
59°	7.0	10.3	13.6	14.5
60°	7.0	10.3	13.6	14.5
62.5°	6.5	10.3	13.1	14.0
65°	6.1	9.3	13.1	13.6



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
67.5°	6.1	8.9	12.2	13.1
70°	5.6	8.4	11.7	12.6
72.5°	4.7	7.9	10.8	11.7
75°	4.2	7.0	9.8	10.8
77.5°	3.7	6.1	8.9	9.3
80°	3.3	5.1	7.5	8.4
82.5°	2.3	3.7	6.1	6.5
85°	1.9	2.8	4.2	4.7
87.5°	1.4	1.4	2.3	2.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)