

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: P1323970

Luminaire Tested: LDSQA3D13R609030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

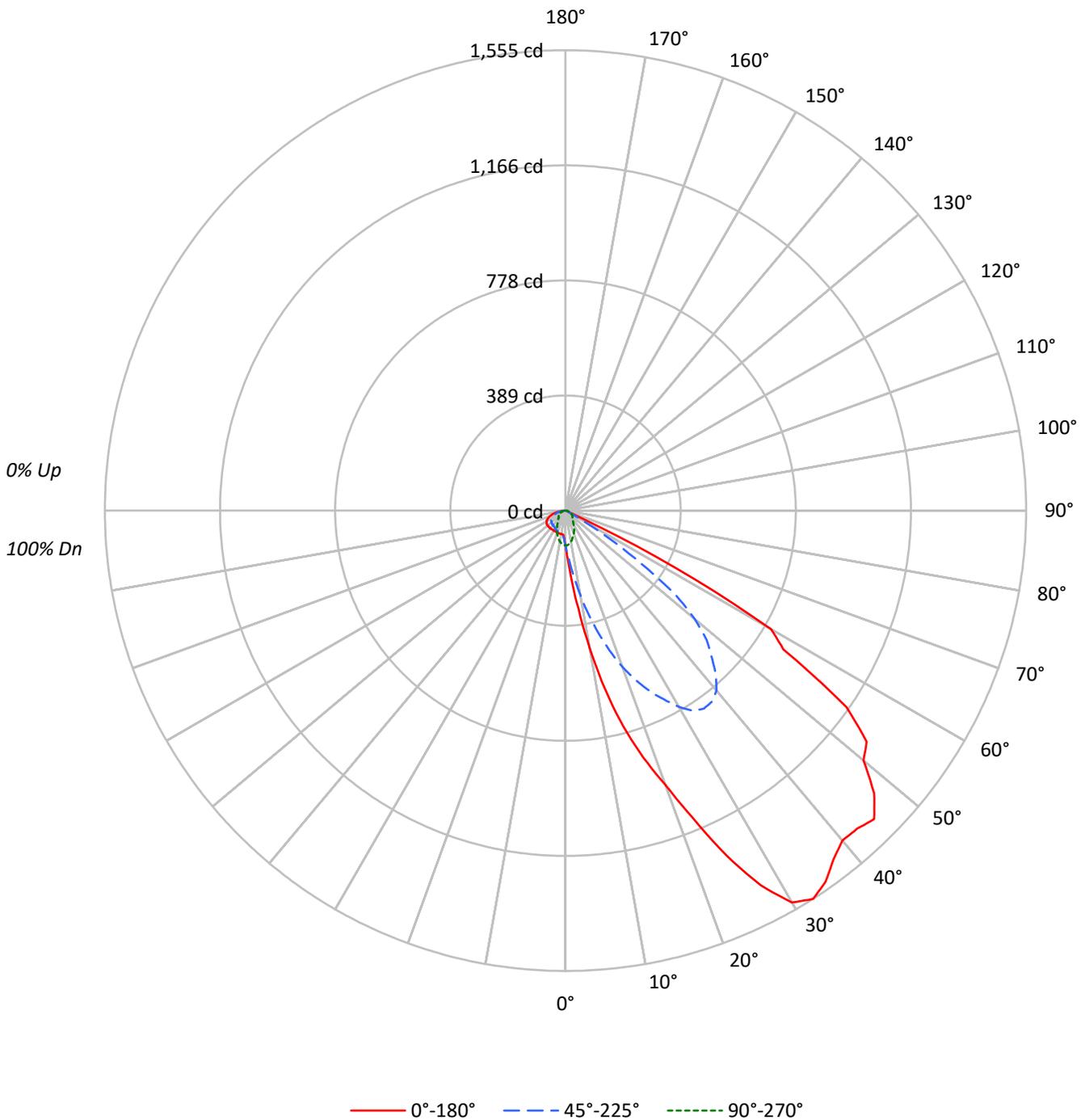
Test Method: LM-79-2019  
Report Number: P1323970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R609030D2WDE010 3LSQCA45R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R60 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1184.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.1  
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			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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

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

	0°	45°	90°	135°	180°
0°	20202	20202	20202	20202	20202
5°	39814	31067	19916	15075	14332
10°	82246	50628	18642	13746	13920
15°	134526	75991	16689	13818	14193
20°	180490	102964	14992	13801	14405
25°	244203	127831	13093	13701	14936
30°	303926	152172	10918	13702	15631
35°	321780	171518	9272	14023	16294
40°	326889	178328	8476	14523	17671
45°	358861	169858	8135	15466	19144
50°	351820	152265	8065	16424	21059
55°	347732	93381	8077	17775	23270
60°	275797	22251	8542	18910	25213
65°	17564	3953	8313	19316	27181
70°	3777	4330	8107	20041	28702
75°	3593	4325	7187	19364	29345
80°	3174	4265	7438	19241	27770
85°	2174	4347	8497	16994	27664

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 378784 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.6	1.2
10°-20°	73.8	6.2
20°-30°	171.2	14.5
30°-40°	266.1	22.5
40°-50°	303.3	25.6
50°-60°	255.4	21.6
60°-70°	74.1	6.3
70°-80°	19.0	1.6
80°-90°	6.4	0.5
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°	259.7	21.9
0°-40°	525.8	44.4
0°-60°	1084.5	91.6
0°-90°	1184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1184.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	117	117	117	117	117	
5°	230	180	115	87	83	29
15°	754	426	94	78	80	218
25°	1285	673	69	72	79	597
35°	1530	816	44	67	78	951
45°	1473	697	33	64	79	1108
55°	1158	311	27	59	78	974
65°	43	10	20	47	67	213
75°	5	6	11	29	44	6
85°	1	2	4	9	14	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°	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3	117.3
2.5°	158.2	157.1	157.1	156.1	155.0	153.9	150.7	149.6	143.1	130.2	117.3
5°	230.3	229.2	226.0	224.9	219.6	212.0	204.5	197.0	179.7	143.1	115.2
7.5°	333.6	335.8	333.6	321.8	314.3	302.4	279.8	263.7	229.2	156.1	110.9
10°	470.3	470.3	467.1	448.8	432.7	410.1	381.0	353.0	289.5	167.9	106.6
12.5°	618.9	622.1	605.9	590.9	561.8	533.8	494.0	452.0	358.4	177.6	101.2
15°	754.5	752.3	736.2	716.8	686.7	647.9	605.9	552.1	426.2	184.0	93.6
17.5°	875.0	870.7	856.7	835.2	798.6	755.5	701.7	643.6	496.2	189.4	88.3
20°	984.8	969.7	953.6	931.0	895.5	850.3	794.3	728.6	561.8	189.4	81.8
22.5°	1123.6	1108.6	1086.0	1051.5	1004.2	948.2	882.5	808.3	619.9	185.1	75.3
25°	1285.1	1273.2	1234.5	1190.4	1129.0	1062.3	985.9	885.8	672.7	178.7	68.9
27.5°	1426.1	1413.1	1374.4	1309.8	1235.6	1155.9	1075.2	972.9	718.9	166.8	61.3
30°	1528.3	1512.2	1482.0	1420.7	1330.3	1233.4	1137.6	1039.7	765.2	152.8	54.9
32.5°	1555.2	1553.1	1530.5	1485.3	1404.5	1298.0	1183.9	1077.3	801.8	134.5	49.5
35°	1530.5	1533.7	1529.4	1506.8	1447.6	1343.2	1214.0	1097.8	815.8	116.2	44.1
37.5°	1485.3	1489.6	1497.1	1500.3	1462.7	1370.1	1231.3	1106.4	812.6	97.9	40.9
40°	1454.0	1451.9	1451.9	1473.4	1465.9	1381.9	1233.4	1099.9	793.2	78.6	37.7
42.5°	1457.3	1433.6	1417.4	1451.9	1462.7	1376.6	1219.4	1082.7	751.2	60.3	34.4
45°	1473.4	1422.8	1394.8	1439.0	1456.2	1358.3	1193.6	1056.9	697.4	42.0	33.4
47.5°	1413.1	1379.8	1375.5	1437.9	1444.4	1327.0	1153.8	1016.0	645.8	29.1	31.2
50°	1313.1	1307.7	1330.3	1394.8	1395.9	1275.4	1108.6	941.7	568.3	20.4	30.1
52.5°	1281.8	1285.1	1305.5	1338.9	1307.7	1188.2	1026.8	879.3	470.3	16.1	29.1
55°	1158.1	1163.4	1182.8	1203.3	1180.7	1081.7	927.7	804.0	311.0	15.1	26.9
57.5°	871.8	885.8	921.3	939.6	941.7	881.5	840.6	693.1	175.4	15.1	25.8
60°	800.7	782.4	766.3	728.6	694.2	686.7	691.0	519.8	64.6	14.0	24.8
62.5°	418.7	410.1	434.8	451.0	455.3	478.9	447.7	274.4	14.0	14.0	22.6
65°	43.1	43.1	52.7	70.0	116.2	155.0	147.4	79.6	9.7	12.9	20.4
67.5°	12.9	12.9	12.9	15.1	19.4	19.4	16.1	11.8	9.7	11.8	18.3
70°	7.5	7.5	7.5	7.5	7.5	7.5	8.6	7.5	8.6	10.8	16.1
72.5°	6.5	6.5	6.5	6.5	7.5	7.5	7.5	7.5	7.5	9.7	14.0
75°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	6.5	7.5	10.8
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.4	5.4	6.5	8.6
80°	3.2	3.2	3.2	3.2	3.2	4.3	4.3	4.3	4.3	5.4	7.5
82.5°	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4
85°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.2
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°	117.3	117.3	117.3	117.3
2.5°	106.6	99.0	94.7	92.6
5°	96.9	87.2	83.9	82.9
7.5°	88.3	81.8	80.7	80.7
10°	82.9	78.6	79.6	79.6
12.5°	79.6	78.6	79.6	80.7
15°	76.4	77.5	79.6	79.6
17.5°	74.3	76.4	78.6	79.6
20°	71.0	75.3	78.6	78.6
22.5°	68.9	74.3	77.5	78.6
25°	66.7	72.1	76.4	78.6
27.5°	63.5	71.0	76.4	77.5
30°	60.3	68.9	75.3	78.6
32.5°	57.0	67.8	75.3	77.5
35°	54.9	66.7	75.3	77.5
37.5°	52.7	65.7	75.3	78.6
40°	51.7	64.6	74.3	78.6
42.5°	49.5	64.6	74.3	78.6
45°	48.4	63.5	74.3	78.6
47.5°	47.4	62.4	74.3	78.6
50°	45.2	61.3	73.2	78.6
52.5°	44.1	60.3	73.2	78.6
55°	42.0	59.2	72.1	77.5
57.5°	40.9	57.0	71.0	75.3
60°	38.7	54.9	68.9	73.2
62.5°	35.5	51.7	65.7	71.0
65°	32.3	47.4	62.4	66.7
67.5°	29.1	44.1	58.1	62.4
70°	25.8	39.8	52.7	57.0
72.5°	22.6	34.4	47.4	50.6
75°	19.4	29.1	39.8	44.1
77.5°	15.1	23.7	33.4	36.6
80°	11.8	19.4	25.8	28.0
82.5°	9.7	14.0	19.4	20.4
85°	6.5	8.6	11.8	14.0
87.5°	3.2	4.3	5.4	6.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)