

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: P1307812

Luminaire Tested: LDSQA3D05R359027DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

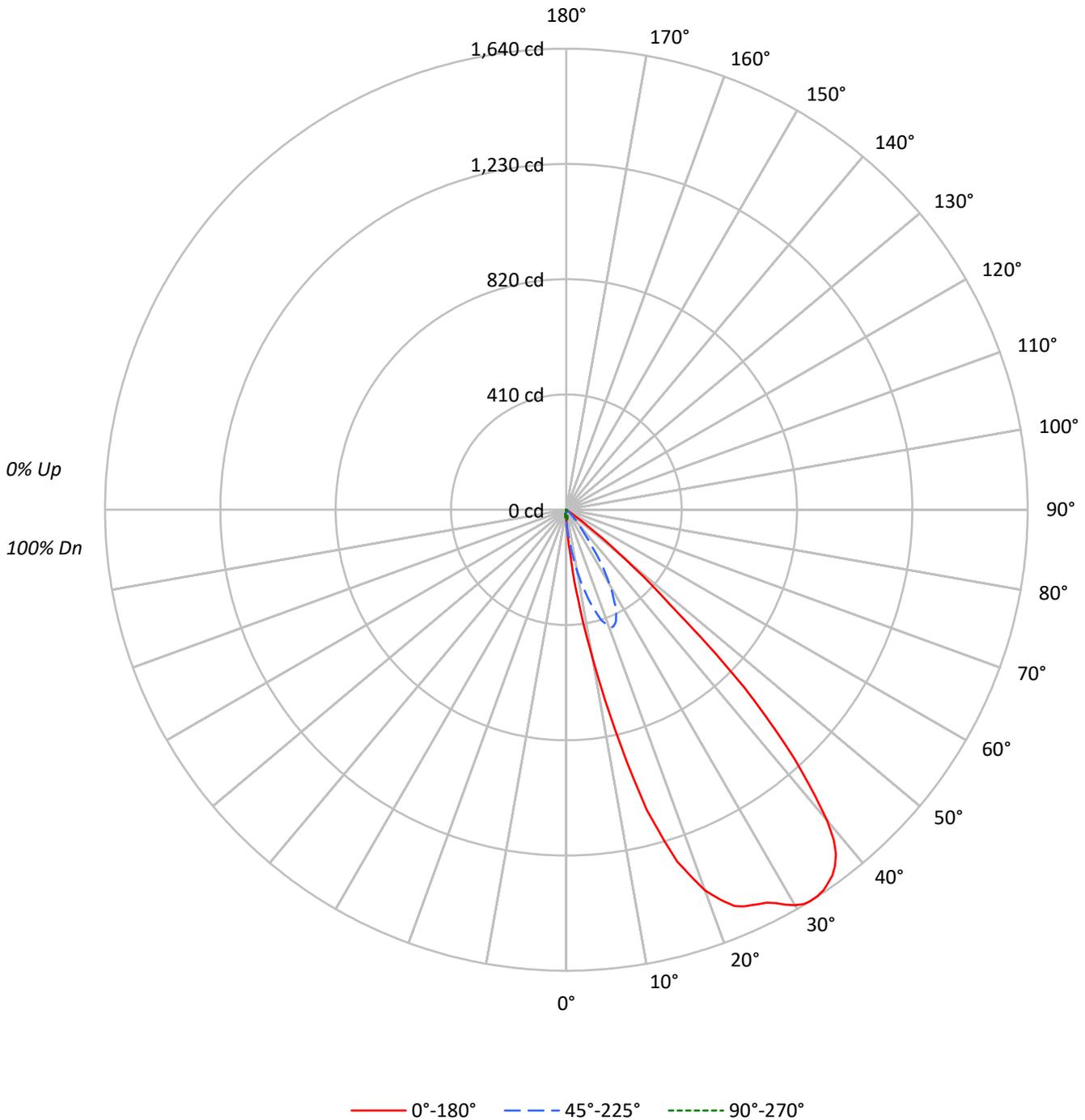
Test Method: LM-79-2019  
Report Number: P1307812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R359027DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 490.0 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.46 / 1.29  
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 (A<sub>in</sub>): 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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	89	87	85	83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	82	79	76	75
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	76	72	69	67
5	86	76	70	64	85	75	69	64	74	68	63	72	67	63	70	66	62	70	66	62	61
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	55	50	46	45
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	6355	6355	6355	6355	6355
5°	27644	17132	5895	2109	1452
10°	93036	38666	4407	490	157
15°	196859	63421	2746	0	0
20°	263953	81044	1283	0	0
25°	294997	79583	266	0	0
30°	322958	60992	0	0	0
35°	340828	33219	0	0	0
40°	324012	14928	0	0	0
45°	217450	6600	0	0	0
50°	72636	616	0	0	0
55°	3933	0	0	0	0
60°	0	0	172	0	0
65°	0	0	367	0	0
70°	0	252	453	0	0
75°	0	333	599	0	0
80°	0	496	893	0	0
85°	0	988	1778	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 217450 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.9	1.6
10°-20°	68.0	13.9
20°-30°	149.2	30.4
30°-40°	172.5	35.2
40°-50°	85.2	17.4
50°-60°	6.3	1.3
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.3	0.1
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°	225.1	45.9
0°-40°	397.6	81.2
0°-60°	489.1	99.8
0°-90°	490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	160	99	34	12	8	28
15°	1104	356	15	0	0	312
25°	1552	419	1	0	0	718
35°	1621	158	0	0	0	1001
45°	893	27	0	0	0	655
55°	13	0	0	0	0	53
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	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°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
2.5°	73.4	75.3	74.3	74.3	73.9	71.5	67.3	65.9	60.8	48.1	37.4
5°	159.9	160.3	158.9	151.9	145.8	140.2	128.1	122.5	99.1	58.9	34.1
7.5°	324.4	317.4	308.5	298.7	277.2	257.6	231.9	204.7	153.3	68.2	30.4
10°	532.0	522.2	514.7	491.3	452.5	412.3	363.2	318.8	221.1	74.8	25.2
12.5°	799.8	794.2	767.6	720.8	663.3	605.4	519.8	449.2	289.4	76.2	20.6
15°	1104.1	1094.8	1054.1	987.7	909.7	818.5	704.0	585.3	355.7	72.0	15.4
17.5°	1312.2	1307.0	1272.0	1202.3	1112.6	996.6	861.1	712.9	410.4	63.1	10.8
20°	1440.2	1432.8	1400.0	1341.1	1247.2	1126.1	965.3	794.2	442.2	51.9	7.0
21°	1473.4	1466.0	1439.8	1378.5	1288.8	1158.8	993.8	813.8	448.3	46.7	5.6
22°	1504.8	1497.3	1469.7	1415.5	1326.7	1191.1	1016.3	828.8	447.4	42.5	4.2
23°	1530.9	1523.0	1495.9	1445.9	1356.6	1219.6	1033.1	836.3	441.3	38.3	3.3
24°	1544.5	1539.8	1515.5	1468.3	1380.9	1239.7	1044.8	839.1	433.8	34.1	2.3
25°	1552.4	1546.8	1523.0	1479.5	1396.8	1255.6	1052.3	836.8	418.8	30.4	1.4
26°	1560.8	1552.4	1525.3	1483.2	1405.2	1263.1	1052.7	830.7	403.0	27.1	0.5
27°	1568.3	1560.4	1532.3	1486.1	1406.6	1260.7	1049.0	819.0	383.8	23.8	0.5
28°	1584.7	1575.8	1543.6	1492.1	1408.0	1254.7	1037.3	803.1	358.5	21.0	0.0
29°	1606.2	1596.8	1559.9	1506.6	1411.3	1248.1	1021.4	782.1	336.6	18.7	0.0
30°	1624.0	1615.5	1581.4	1524.9	1419.7	1242.0	1002.7	753.5	306.7	15.9	0.0
31°	1637.0	1628.6	1597.3	1540.3	1427.2	1236.4	979.3	724.1	279.5	14.0	0.0
32°	1640.3	1633.3	1603.9	1546.8	1427.2	1228.0	957.8	690.9	252.9	11.7	0.0
33°	1638.9	1631.9	1602.0	1542.1	1414.5	1207.9	931.6	651.2	222.5	10.3	0.0
34°	1633.8	1625.4	1593.6	1527.2	1389.8	1173.8	893.8	611.4	190.7	8.4	0.0
35°	1621.1	1613.7	1579.1	1499.1	1351.4	1121.9	843.3	565.6	158.0	7.0	0.0
36°	1609.0	1597.8	1555.2	1464.6	1300.9	1068.6	783.0	512.8	130.0	5.6	0.0
37°	1586.6	1570.7	1527.7	1414.5	1229.4	993.4	714.3	454.8	108.9	4.2	0.0
38°	1556.6	1535.1	1480.4	1356.6	1157.4	922.8	649.8	402.5	91.6	2.8	0.0
39°	1510.4	1485.1	1410.8	1277.1	1074.2	841.0	575.9	346.9	78.1	1.9	0.0
40°	1441.2	1417.3	1335.1	1182.7	991.5	750.7	500.2	284.2	66.4	0.9	0.0
42.5°	1200.0	1167.2	1071.9	920.4	733.0	539.9	331.0	158.0	43.9	0.0	0.0
45°	892.8	863.9	770.4	632.5	488.5	330.5	177.2	93.0	27.1	0.0	0.0
47.5°	504.4	501.1	440.3	363.2	272.5	175.8	89.8	56.1	11.7	0.0	0.0
50°	271.1	254.3	219.2	166.4	113.6	76.7	48.6	30.9	2.3	0.0	0.0
52.5°	99.1	95.8	80.4	66.8	51.4	35.1	24.8	13.6	0.0	0.0	0.0
55°	13.1	12.2	12.6	13.6	14.0	12.2	7.9	2.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.5	0.9	0.9	0.9	0.0	0.0	0.0	0.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.9
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°	36.9	36.9	36.9	36.9
2.5°	28.5	22.0	18.7	18.2
5°	19.6	12.2	8.9	8.4
7.5°	13.6	6.1	4.2	3.7
10°	7.9	2.8	1.4	0.9
12.5°	4.7	0.5	0.0	0.0
15°	1.4	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.5	0.0	0.0	0.0
67.5°	0.5	0.0	0.0	0.0
70°	0.5	0.0	0.0	0.0
72.5°	0.5	0.0	0.0	0.0
75°	0.5	0.0	0.0	0.0
77.5°	0.5	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.5	0.0	0.0	0.0
85°	0.5	0.0	0.0	0.0
87.5°	0.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)