

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: P1320475

Luminaire Tested: LDSQA3D20R709840D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

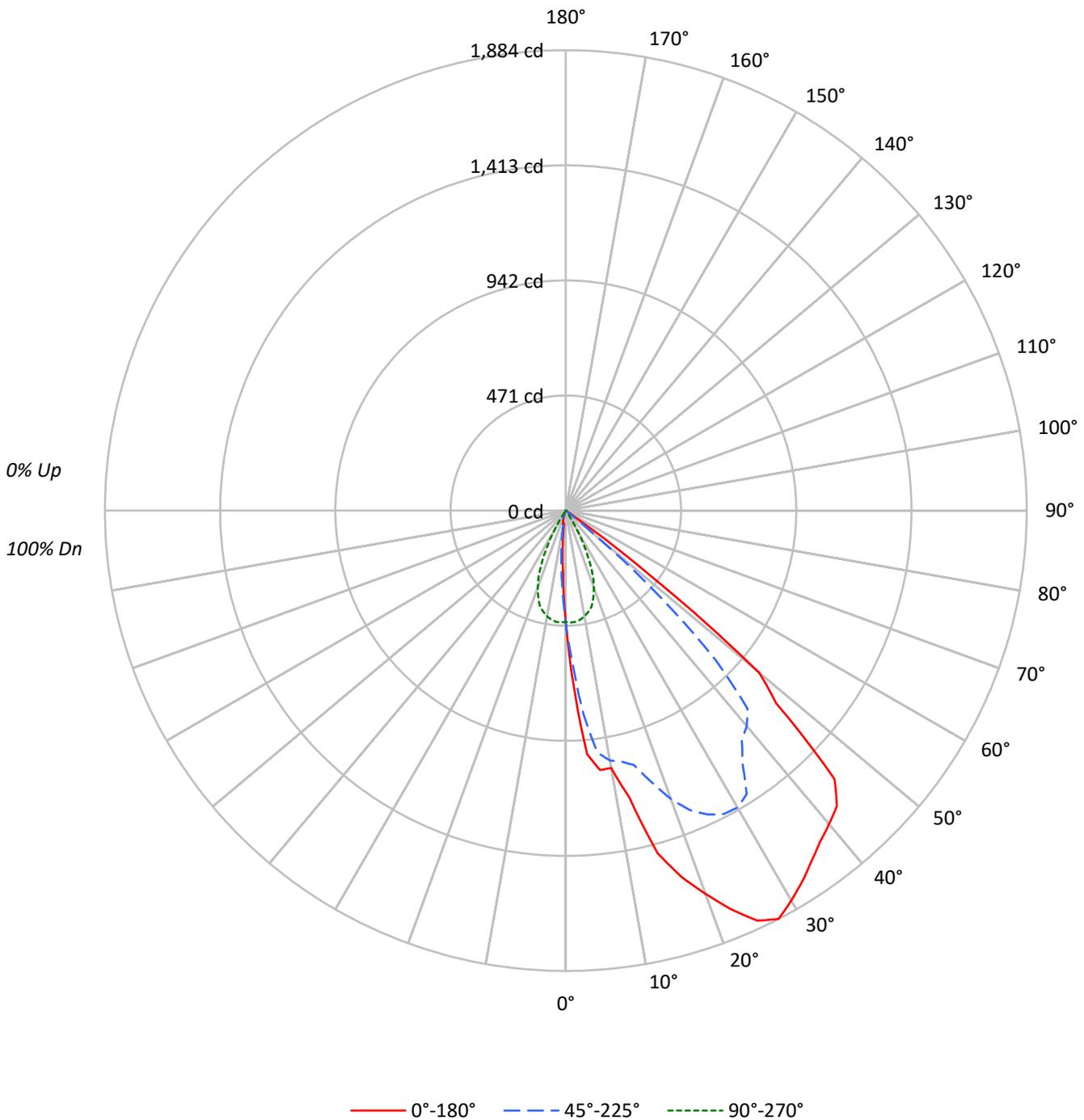
Test Method: LM-79-2019  
Report Number: P1320475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709840D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1226.0 lumens  
Efficiency: N/A  
Efficacy: 44.7 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
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

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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

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

	0°	45°	90°	135°	180°
0°	78361	78361	78361	78361	78361
5°	172881	145064	78955	35890	23633
10°	186981	181525	76842	9986	10283
15°	258800	192170	72496	10181	7399
20°	305667	230194	61507	6030	2218
25°	351777	260717	43402	988	0
30°	366410	279028	19946	0	0
35°	368097	264446	1093	0	0
40°	376507	258656	0	0	0
45°	378394	211946	0	0	0
50°	276264	44048	0	0	0
55°	15584	0	0	0	0
60°	0	586	586	0	0
65°	0	0	693	0	0
70°	0	856	856	0	0
75°	0	1131	1131	0	0
80°	0	1686	1686	1686	0
85°	0	3359	3359	3359	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 385555 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	4.1
10°-20°	166.2	13.6
20°-30°	298.8	24.4
30°-40°	363.2	29.6
40°-50°	280.5	22.9
50°-60°	65.2	5.3
60°-70°	0.4	0.0
70°-80°	0.9	0.1
80°-90°	0.9	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°	514.8	42.0
0°-40°	878.0	71.6
0°-60°	1223.7	99.8
0°-90°	1226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	455	455	455	455	455	
5°	1000	839	457	208	137	94
15°	1452	1078	407	57	42	406
25°	1851	1372	228	5	0	842
35°	1751	1258	5	0	0	1100
45°	1554	870	0	0	0	1098
55°	52	0	0	0	0	213
65°	0	0	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
2.5°	709.3	709.3	712.8	711.1	695.5	688.6	666.1	654.0	650.5	622.8	612.4
5°	1000.0	1001.7	993.1	991.3	974.0	961.9	942.9	913.5	884.1	839.1	799.3
7.5°	1070.9	1069.2	1067.5	1067.5	1064.0	1057.1	1048.4	1039.8	1027.7	1000.0	968.8
10°	1069.2	1069.2	1067.5	1067.5	1065.7	1067.5	1065.7	1060.5	1055.3	1038.0	1020.7
12.5°	1204.1	1193.8	1179.9	1159.2	1124.6	1098.6	1069.2	1060.5	1057.1	1051.9	1041.5
15°	1451.5	1442.9	1413.5	1377.1	1342.5	1283.7	1237.0	1173.0	1122.8	1077.8	1055.3
17.5°	1570.9	1576.1	1543.2	1520.7	1487.9	1441.2	1385.8	1320.1	1249.1	1164.3	1096.9
20°	1667.8	1673.0	1645.3	1622.8	1584.8	1536.3	1487.9	1416.9	1349.5	1256.0	1167.8
22.5°	1766.4	1769.9	1743.9	1711.1	1667.8	1617.6	1555.3	1482.7	1410.0	1327.0	1233.5
25°	1851.2	1847.7	1804.5	1757.8	1716.2	1662.6	1602.1	1531.1	1461.9	1372.0	1283.7
27.5°	1884.1	1882.3	1833.9	1788.9	1740.5	1667.8	1614.2	1551.9	1479.2	1399.6	1309.7
30°	1842.5	1870.2	1839.1	1806.2	1747.4	1674.7	1622.8	1548.4	1480.9	1403.1	1301.0
32.5°	1799.3	1833.9	1823.5	1807.9	1738.7	1681.6	1614.2	1545.0	1465.4	1375.4	1219.7
35°	1750.8	1787.2	1788.9	1771.6	1709.3	1652.2	1589.9	1517.3	1427.3	1257.8	1143.6
37.5°	1707.6	1742.2	1752.6	1716.2	1667.8	1591.7	1534.6	1458.5	1295.8	1181.6	1122.8
40°	1674.7	1700.7	1716.2	1659.1	1610.7	1536.3	1470.6	1337.4	1190.3	1150.5	1067.5
42.5°	1640.1	1664.3	1671.3	1609.0	1534.6	1463.6	1368.5	1200.7	1157.4	1098.6	875.4
45°	1553.6	1583.0	1565.7	1505.2	1449.8	1375.4	1233.5	1160.9	1114.2	870.2	538.1
47.5°	1166.1	1198.9	1245.7	1263.0	1282.0	1228.4	1150.5	1124.6	915.2	527.7	167.8
50°	1031.1	1025.9	1025.9	1034.6	1050.2	1067.5	1090.0	948.1	550.2	164.4	0.0
52.5°	420.4	441.2	543.2	634.9	740.5	846.0	878.9	581.3	214.5	3.5	0.0
55°	51.9	51.9	72.7	124.6	205.9	332.2	373.7	186.8	15.6	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	13.8	38.1	26.0	6.9	1.7	1.7	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
2.5°	595.1	574.4	545.0	458.5	384.1	318.3	280.3	261.2
5°	761.2	711.1	643.6	456.7	311.4	207.6	155.7	136.7
7.5°	920.4	863.3	749.1	449.8	238.8	121.1	67.5	53.6
10°	989.6	948.1	846.0	439.4	173.0	57.1	57.1	58.8
12.5°	1017.3	986.1	903.1	423.9	114.2	55.4	58.8	55.4
15°	1036.3	1006.9	930.8	406.6	65.7	57.1	46.7	41.5
17.5°	1046.7	1012.1	939.4	373.7	43.3	48.4	29.4	24.2
20°	1079.6	1024.2	946.4	335.6	41.5	32.9	15.6	12.1
22.5°	1134.9	1048.4	948.1	288.9	32.9	19.0	5.2	0.0
25°	1185.1	1081.3	953.3	228.4	10.4	5.2	0.0	0.0
27.5°	1209.3	1091.7	951.5	160.9	0.0	0.0	0.0	0.0
30°	1179.9	1065.7	936.0	100.3	0.0	0.0	0.0	0.0
32.5°	1110.7	1046.7	887.5	43.3	0.0	0.0	0.0	0.0
35°	1088.2	1005.2	776.8	5.2	0.0	0.0	0.0	0.0
37.5°	1038.0	885.8	570.9	0.0	0.0	0.0	0.0	0.0
40°	892.7	640.1	271.6	0.0	0.0	0.0	0.0	0.0
42.5°	590.0	273.4	15.6	0.0	0.0	0.0	0.0	0.0
45°	207.6	17.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0
67.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
70°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
72.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
75°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
77.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)