

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: P1310742

Luminaire Tested: LDSQA3D20R709035D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

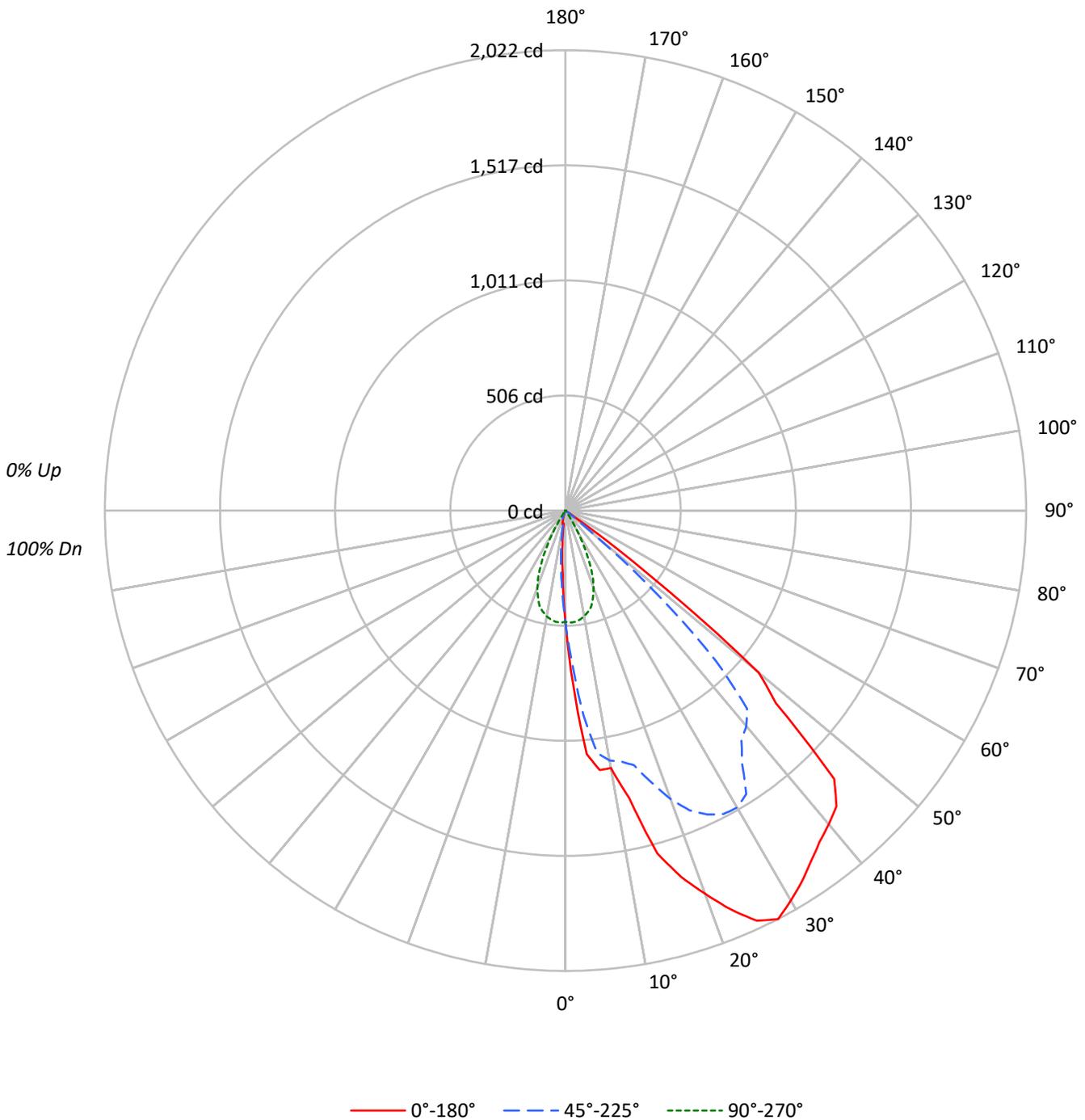
Test Method: LM-79-2019  
Report Number: P1310742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709035D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1316.1 lumens  
Efficiency: N/A  
Efficacy: 45.7 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): 28.8  
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	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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	58	53	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	84114	84114	84114	84114	84114
5°	185570	155713	84763	38535	25362
10°	200709	194868	82491	10720	11035
15°	277806	206291	77809	10930	7952
20°	328100	247092	66034	6470	2383
25°	377602	279852	46576	1064	0
30°	393316	299511	21418	0	0
35°	395134	283852	1177	0	0
40°	404160	277654	0	0	0
45°	406184	227509	0	0	0
50°	296546	47263	0	0	0
55°	16725	0	0	0	0
60°	0	654	654	0	0
65°	0	0	774	0	0
70°	0	957	957	0	0
75°	0	1264	1264	0	0
80°	0	1884	1884	1884	0
85°	0	3754	3754	3754	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 413856 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	4.1
10°-20°	178.4	13.6
20°-30°	320.7	24.4
30°-40°	389.9	29.6
40°-50°	301.1	22.9
50°-60°	70.0	5.3
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	1.0	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°	552.6	42.0
0°-40°	942.5	71.6
0°-60°	1313.6	99.8
0°-90°	1316.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	488	488	488	488	488	
5°	1073	901	490	223	147	101
15°	1558	1157	436	61	45	436
25°	1987	1473	245	6	0	904
35°	1879	1350	6	0	0	1181
45°	1668	934	0	0	0	1179
55°	56	0	0	0	0	229
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°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	761.4	761.4	765.1	763.3	746.5	739.1	715.0	702.0	698.3	668.6	657.4
5°	1073.4	1075.3	1066.0	1064.1	1045.5	1032.5	1012.1	980.5	949.0	900.7	858.0
7.5°	1149.5	1147.7	1145.8	1145.8	1142.1	1134.7	1125.4	1116.1	1103.1	1073.4	1040.0
10°	1147.7	1147.7	1145.8	1145.8	1144.0	1145.8	1144.0	1138.4	1132.8	1114.3	1095.7
12.5°	1292.5	1281.4	1266.5	1244.2	1207.1	1179.2	1147.7	1138.4	1134.7	1129.1	1118.0
15°	1558.1	1548.8	1517.2	1478.2	1441.1	1378.0	1327.8	1259.1	1205.2	1157.0	1132.8
17.5°	1686.2	1691.8	1656.5	1632.4	1597.1	1547.0	1487.5	1417.0	1340.8	1249.8	1177.4
20°	1790.2	1795.8	1766.1	1741.9	1701.1	1649.1	1597.1	1521.0	1448.5	1348.2	1253.5
22.5°	1896.1	1899.8	1871.9	1836.7	1790.2	1736.4	1669.5	1591.5	1513.5	1424.4	1324.1
25°	1987.1	1983.4	1936.9	1886.8	1842.2	1784.7	1719.7	1643.5	1569.2	1472.7	1378.0
27.5°	2022.4	2020.5	1968.5	1920.2	1868.2	1790.2	1732.7	1665.8	1587.8	1502.4	1405.8
30°	1977.8	2007.5	1974.1	1938.8	1875.7	1797.7	1741.9	1662.1	1589.7	1506.1	1396.5
32.5°	1931.4	1968.5	1957.4	1940.7	1866.4	1805.1	1732.7	1658.4	1573.0	1476.4	1309.2
35°	1879.4	1918.4	1920.2	1901.7	1834.8	1773.5	1706.7	1628.7	1532.1	1350.1	1227.5
37.5°	1832.9	1870.1	1881.2	1842.2	1790.2	1708.5	1647.2	1565.5	1391.0	1268.4	1205.2
40°	1797.7	1825.5	1842.2	1780.9	1728.9	1649.1	1578.5	1435.5	1277.7	1235.0	1145.8
42.5°	1760.5	1786.5	1793.9	1727.1	1647.2	1571.1	1469.0	1288.8	1242.4	1179.2	939.7
45°	1667.7	1699.2	1680.7	1615.7	1556.2	1476.4	1324.1	1246.1	1196.0	934.1	577.6
47.5°	1251.7	1287.0	1337.1	1355.7	1376.1	1318.5	1235.0	1207.1	982.4	566.4	180.1
50°	1106.8	1101.3	1101.3	1110.5	1127.3	1145.8	1170.0	1017.7	590.6	176.4	0.0
52.5°	451.3	473.6	583.1	681.6	794.8	908.1	943.4	624.0	230.3	3.7	0.0
55°	55.7	55.7	78.0	133.7	221.0	356.6	401.1	200.6	16.7	0.0	0.0
57.5°	0.0	0.0	0.0	1.9	14.9	40.9	27.9	7.4	1.9	1.9	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
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	1.9	1.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	638.8	616.6	585.0	492.1	412.3	341.7	300.8	280.4
5°	817.1	763.3	690.8	490.3	334.3	222.9	167.1	146.7
7.5°	988.0	926.7	804.1	482.8	256.3	130.0	72.4	57.6
10°	1062.3	1017.7	908.1	471.7	185.7	61.3	61.3	63.1
12.5°	1092.0	1058.5	969.4	455.0	122.6	59.4	63.1	59.4
15°	1112.4	1080.8	999.1	436.4	70.6	61.3	50.1	44.6
17.5°	1123.5	1086.4	1008.4	401.1	46.4	52.0	31.6	26.0
20°	1158.8	1099.4	1015.8	360.3	44.6	35.3	16.7	13.0
22.5°	1218.2	1125.4	1017.7	310.1	35.3	20.4	5.6	0.0
25°	1272.1	1160.7	1023.3	245.1	11.1	5.6	0.0	0.0
27.5°	1298.1	1171.8	1021.4	172.7	0.0	0.0	0.0	0.0
30°	1266.5	1144.0	1004.7	107.7	0.0	0.0	0.0	0.0
32.5°	1192.2	1123.5	952.7	46.4	0.0	0.0	0.0	0.0
35°	1168.1	1079.0	833.8	5.6	0.0	0.0	0.0	0.0
37.5°	1114.3	950.8	612.8	0.0	0.0	0.0	0.0	0.0
40°	958.3	687.1	291.6	0.0	0.0	0.0	0.0	0.0
42.5°	633.3	293.4	16.7	0.0	0.0	0.0	0.0	0.0
45°	222.9	18.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.7	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°	1.9	1.9	1.9	1.9	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	1.9	1.9	0.0	0.0	0.0	0.0
67.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
70°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
72.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
75°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
77.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
80°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
85°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	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)