

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: P1320307

Luminaire Tested: LDSQA3D17R559840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

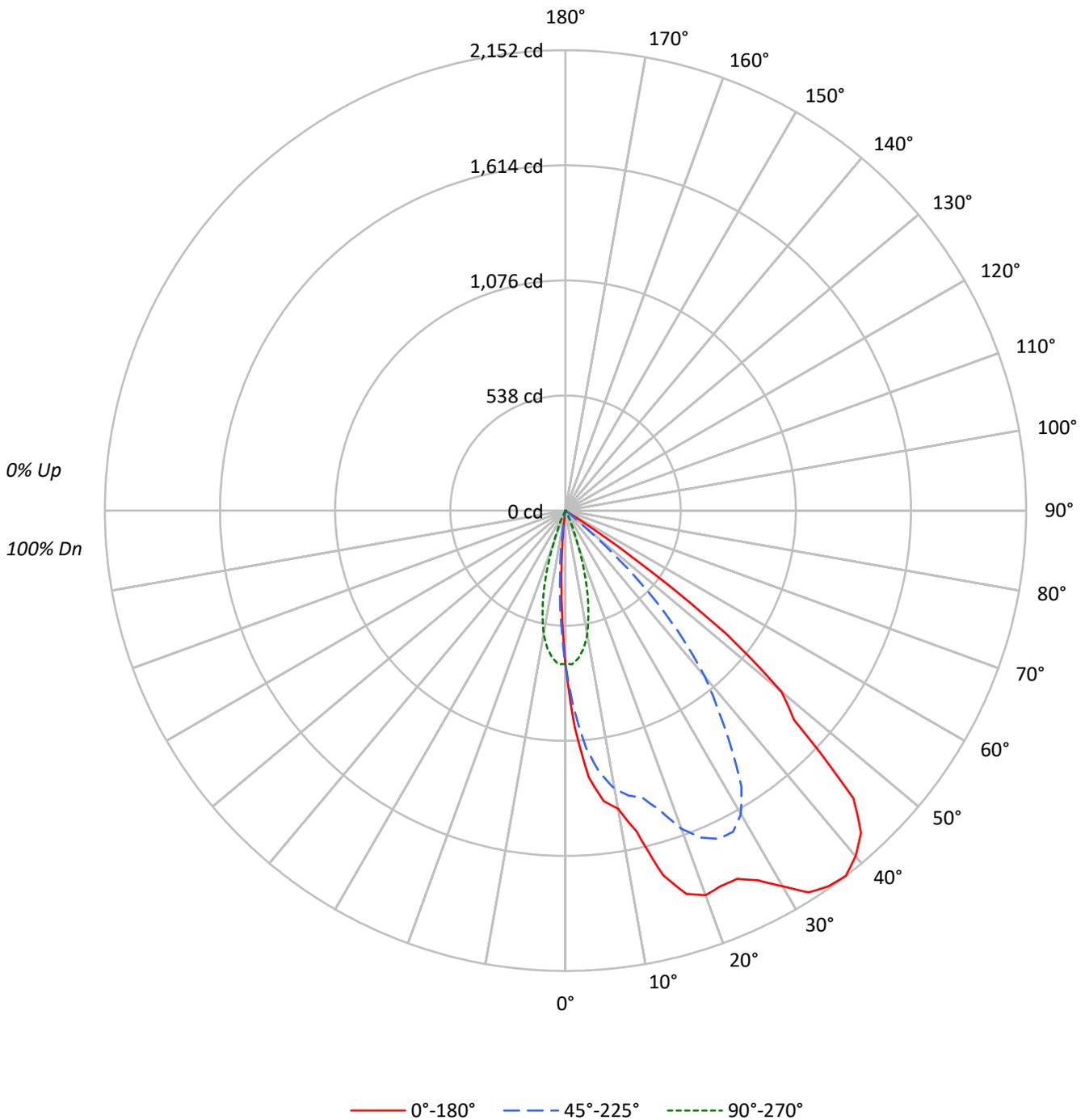
Test Method: LM-79-2019  
Report Number: P1320307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559840DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1325.9 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.4  
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	88	86	84	82
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	123398	123398	123398	123398	123398
5°	216291	192814	119772	49772	28646
10°	247559	230771	102427	5456	1959
15°	314607	247727	70214	1105	660
20°	350569	289814	30827	0	0
25°	360880	321563	8760	0	0
30°	403180	325861	1233	0	0
35°	450618	282948	0	0	0
40°	474012	227766	0	0	0
45°	463445	143871	0	0	0
50°	352892	29392	0	0	0
55°	115600	0	0	0	0
60°	0	0	0	0	0
65°	0	489	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	2479	1190	0
85°	0	2371	2371	2371	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 463445 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	4.9
10°-20°	191.9	14.5
20°-30°	312.0	23.5
30°-40°	370.8	28.0
40°-50°	303.2	22.9
50°-60°	80.4	6.1
60°-70°	0.5	0.0
70°-80°	0.8	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°	569.3	42.9
0°-40°	940.1	70.9
0°-60°	1323.7	99.8
0°-90°	1325.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1325.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	1251	1115	693	288	166	123
15°	1764	1389	394	6	4	493
25°	1899	1692	46	0	0	894
35°	2143	1346	0	0	0	1333
45°	1903	591	0	0	0	1366
55°	385	0	0	0	0	433
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	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°	67.5°
0°	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5
2.5°	1016.8	1009.3	1010.6	1006.9	1010.6	994.4	976.9	960.8	948.3	930.8	824.9
5°	1251.1	1238.6	1234.9	1229.9	1224.9	1205.0	1188.8	1168.9	1145.2	1115.3	920.9
7.5°	1369.5	1359.5	1354.5	1357.0	1345.8	1338.3	1317.1	1294.7	1269.8	1237.4	993.1
10°	1415.6	1405.6	1404.4	1403.1	1401.9	1396.9	1386.9	1367.0	1344.6	1319.6	1034.3
12.5°	1536.5	1514.0	1499.1	1481.6	1460.4	1433.0	1410.6	1393.1	1384.4	1364.5	1053.0
15°	1764.5	1743.3	1727.1	1704.7	1664.8	1606.2	1552.7	1484.1	1424.3	1389.4	1045.5
17.5°	1879.1	1869.2	1855.5	1840.5	1813.1	1770.7	1715.9	1643.6	1567.6	1469.2	1009.3
20°	1912.8	1907.8	1897.8	1891.6	1872.9	1843.0	1805.6	1749.5	1678.5	1581.3	953.3
22.5°	1899.1	1902.8	1907.8	1924.0	1926.5	1905.3	1870.4	1816.8	1744.6	1654.8	867.3
25°	1899.1	1896.6	1896.6	1930.2	1951.4	1941.4	1916.5	1867.9	1794.4	1692.2	761.4
27.5°	1947.7	1932.7	1901.6	1936.5	1971.3	1967.6	1945.2	1887.9	1805.6	1693.5	631.8
30°	2027.4	1995.0	1943.9	1976.3	2008.7	1995.0	1958.9	1885.4	1780.7	1638.6	473.5
32.5°	2115.9	2100.9	2074.8	2096.0	2091.0	2036.1	1971.3	1869.2	1729.6	1529.0	319.0
35°	2143.3	2145.8	2128.4	2124.6	2096.0	2039.9	1971.3	1823.1	1622.4	1345.8	189.4
37.5°	2152.0	2153.3	2125.9	2091.0	2048.6	1982.6	1900.3	1728.4	1424.3	1168.9	100.9
40°	2108.4	2107.2	2062.3	2019.9	1972.6	1907.8	1788.2	1529.0	1236.1	1013.1	36.1
42.5°	2043.6	2027.4	1985.1	1932.7	1875.4	1794.4	1607.5	1291.0	1074.1	811.2	2.5
45°	1902.8	1887.9	1854.2	1798.1	1734.6	1619.9	1324.6	1109.0	873.5	590.7	0.0
47.5°	1446.7	1439.3	1474.1	1481.6	1480.4	1349.5	1105.3	904.7	641.7	343.9	0.0
50°	1317.1	1307.2	1272.3	1227.4	1147.7	1038.0	886.0	670.4	376.3	109.7	0.0
52.5°	945.8	978.2	985.7	952.0	877.3	768.8	610.6	386.3	130.8	0.0	0.0
55°	385.0	365.1	380.1	398.8	413.7	380.1	281.6	137.1	1.2	0.0	0.0
57.5°	0.0	1.2	7.5	17.4	28.7	36.1	38.6	2.5	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
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):**

	90°	112.5°	135°	157.5°	180°
0°	716.5	716.5	716.5	716.5	716.5
2.5°	719.0	608.1	500.9	442.4	413.7
5°	692.8	464.8	287.9	199.4	165.7
7.5°	649.2	319.0	114.6	47.4	33.6
10°	585.7	183.2	31.2	12.5	11.2
12.5°	494.7	83.5	11.2	8.7	8.7
15°	393.8	28.7	6.2	5.0	3.7
17.5°	276.6	7.5	2.5	0.0	0.0
20°	168.2	1.2	0.0	0.0	0.0
22.5°	93.5	0.0	0.0	0.0	0.0
25°	46.1	0.0	0.0	0.0	0.0
27.5°	19.9	0.0	0.0	0.0	0.0
30°	6.2	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	1.2	0.0	0.0	0.0	0.0
65°	1.2	1.2	0.0	0.0	0.0
67.5°	1.2	1.2	0.0	0.0	0.0
70°	1.2	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	0.0	0.0	0.0
75°	1.2	1.2	0.0	0.0	0.0
77.5°	2.5	1.2	1.2	0.0	0.0
80°	2.5	1.2	1.2	0.0	0.0
82.5°	2.5	1.2	1.2	0.0	0.0
85°	1.2	1.2	1.2	0.0	0.0
87.5°	2.5	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)