

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: P1311856

Luminaire Tested: LDSQA3D20R659040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R659040D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

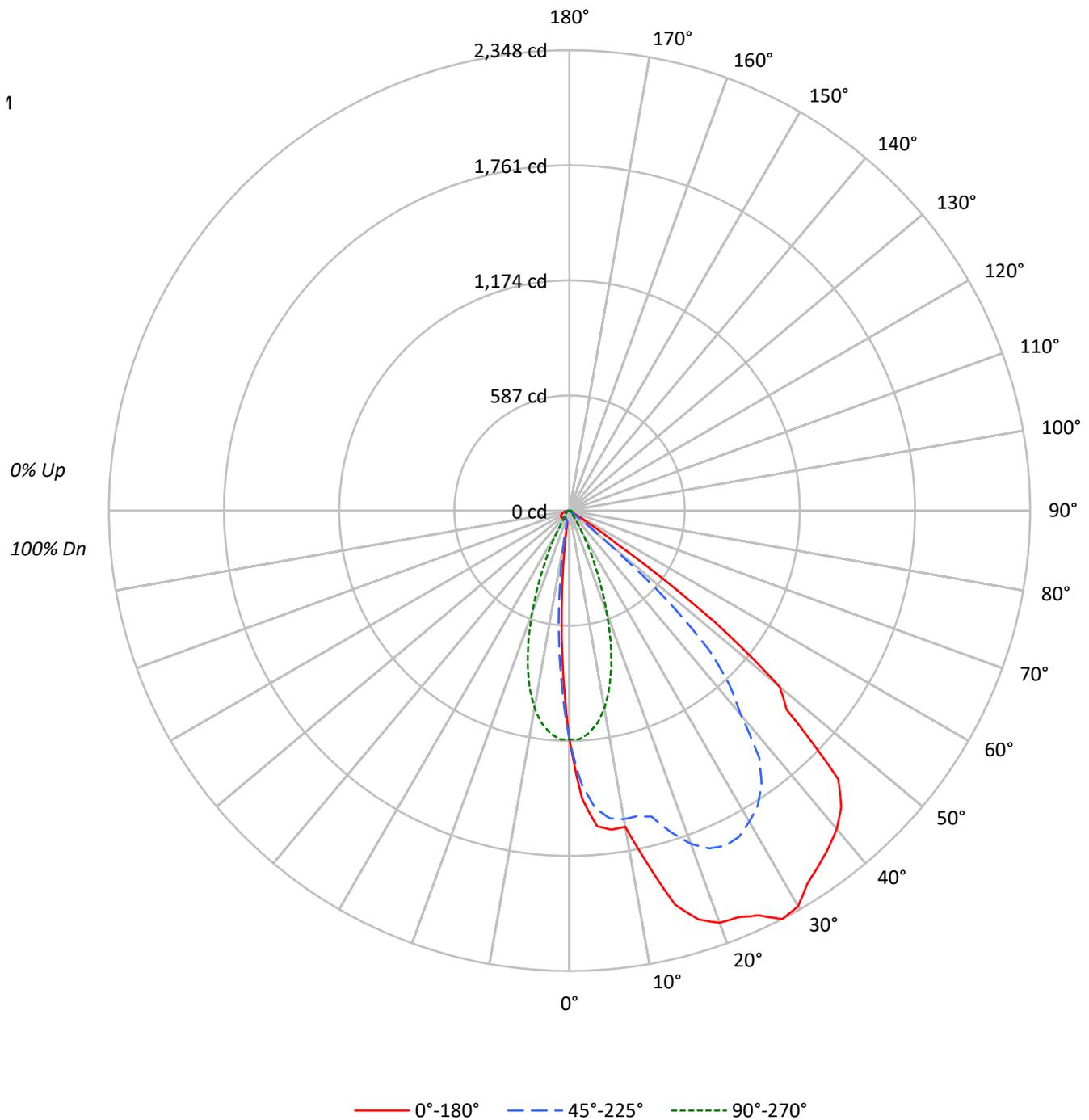
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1749.0 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
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 (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	100			100	
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90			90	
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72			72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65			65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58	
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53	
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48	
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40			40	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36			36	

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

	0°	45°	90°	135°	180°
0°	200967	200967	200967	200967	200967
5°	279340	263625	196703	108085	76050
10°	286383	279387	178954	30202	11122
15°	371056	288094	146472	9717	9396
20°	410061	331454	101938	8669	8999
25°	432767	358162	57673	8285	8988
30°	463377	364342	26032	8313	9406
35°	465062	358825	8410	8788	10323
40°	476462	304834	5710	9398	11443
45°	471897	245679	5748	10181	12397
50°	374487	57953	5841	11200	14120
55°	88967	3273	6005	12551	15824
60°	3134	3754	6889	13158	16912
65°	3708	3708	6683	14059	18501
70°	2769	3676	6395	13747	19235
75°	2396	3660	6055	14506	19364
80°	1785	3570	7240	14381	19836
85°	3557	7114	7114	14425	17982

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 472798 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	5.6
10°-20°	256.4	14.7
20°-30°	402.8	23.0
30°-40°	460.8	26.3
40°-50°	370.4	21.2
50°-60°	120.5	6.9
60°-70°	21.4	1.2
70°-80°	14.1	0.8
80°-90°	5.1	0.3
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°	756.7	43.3
0°-40°	1217.5	69.6
0°-60°	1708.4	97.7
0°-90°	1749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1167	1167	1167	1167	1167	
5°	1616	1525	1138	625	440	153
15°	2081	1616	822	54	53	580
25°	2277	1885	304	44	47	1061
35°	2212	1707	40	42	49	1389
45°	1938	1009	24	42	51	1394
55°	296	11	20	42	53	423
65°	9	9	16	34	45	8
75°	4	6	9	22	29	4
85°	2	4	4	7	9	1
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°	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9
2.5°	1468.6	1463.1	1470.4	1457.7	1455.9	1443.1	1435.9	1432.2	1415.9	1394.1	1374.1
5°	1615.8	1594.0	1599.5	1597.6	1588.6	1583.1	1575.8	1566.7	1544.9	1524.9	1499.5
7.5°	1641.3	1623.1	1626.7	1628.5	1623.1	1621.3	1619.5	1615.8	1601.3	1583.1	1561.3
10°	1637.6	1619.5	1617.6	1612.2	1606.7	1608.5	1608.5	1608.5	1604.9	1597.6	1590.4
12.5°	1848.5	1823.0	1817.6	1779.4	1744.9	1684.9	1646.7	1610.4	1594.0	1595.8	1590.4
15°	2081.1	2079.3	2061.1	2024.8	1966.6	1912.1	1824.8	1759.4	1675.8	1615.8	1590.4
17.5°	2186.5	2184.7	2168.4	2137.5	2095.7	2044.8	1981.1	1904.8	1812.1	1719.4	1643.1
20°	2237.4	2250.1	2232.0	2206.5	2166.5	2119.3	2059.3	1990.2	1903.0	1808.5	1717.6
22.5°	2244.7	2261.1	2244.7	2226.5	2197.4	2166.5	2115.6	2044.8	1955.7	1864.8	1775.8
25°	2277.4	2282.9	2248.3	2224.7	2197.4	2175.6	2135.6	2073.8	1983.0	1884.8	1797.6
27.5°	2348.3	2324.7	2252.0	2219.2	2193.8	2173.8	2135.6	2072.0	1973.9	1873.9	1783.0
30°	2330.1	2321.0	2257.4	2226.5	2204.7	2184.7	2137.5	2055.7	1937.5	1832.1	1737.6
32.5°	2255.6	2273.8	2252.0	2241.1	2230.2	2204.7	2135.6	2024.8	1892.1	1784.9	1657.6
35°	2212.0	2233.8	2235.6	2235.6	2222.9	2184.7	2102.9	1979.3	1846.6	1706.7	1535.8
37.5°	2168.4	2186.5	2197.4	2204.7	2186.5	2132.0	2028.4	1917.5	1772.1	1588.6	1288.7
40°	2119.3	2132.0	2141.1	2144.7	2117.5	2046.6	1952.1	1826.7	1663.1	1355.9	1150.5
42.5°	2050.2	2057.5	2055.7	2053.9	2024.8	1946.6	1857.6	1726.7	1403.2	1208.7	959.7
45°	1937.5	1930.3	1941.2	1941.2	1903.0	1844.8	1726.7	1472.2	1255.9	1008.7	618.0
47.5°	1501.3	1506.8	1559.5	1644.9	1697.6	1681.2	1521.3	1288.7	1056.0	661.6	205.4
50°	1397.7	1392.3	1394.1	1403.2	1408.6	1363.2	1248.7	1088.7	697.9	216.3	14.5
52.5°	937.9	943.3	985.1	1081.5	1112.4	1079.6	970.6	727.0	254.5	14.5	12.7
55°	296.3	316.3	339.9	390.8	479.8	536.2	525.3	258.1	16.4	10.9	12.7
57.5°	10.9	10.9	14.5	25.4	49.1	80.0	83.6	16.4	12.7	12.7	12.7
60°	9.1	9.1	9.1	9.1	9.1	9.1	10.9	10.9	10.9	10.9	10.9
62.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.9	10.9	10.9	10.9
65°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.9
67.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.1	9.1	9.1	9.1
70°	5.5	5.5	5.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.1
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.3	7.3	7.3
75°	3.6	3.6	3.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.5	5.5	5.5
80°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9
2.5°	1363.2	1341.4	1297.7	1166.9	1030.6	894.2	808.8	787.0
5°	1470.4	1445.0	1383.2	1137.8	861.5	625.2	490.7	439.9
7.5°	1535.8	1504.9	1432.2	1092.4	670.7	363.5	218.1	174.5
10°	1564.9	1537.7	1455.9	1023.3	485.3	172.7	76.3	63.6
12.5°	1577.6	1555.8	1465.0	932.4	316.3	76.3	56.3	54.5
15°	1583.1	1559.5	1461.3	821.5	179.9	54.5	52.7	52.7
17.5°	1588.6	1561.3	1439.5	694.3	100.0	50.9	49.1	50.9
20°	1632.2	1554.0	1401.3	556.2	65.4	47.3	47.3	49.1
22.5°	1675.8	1552.2	1334.1	425.3	50.9	45.4	47.3	47.3
25°	1690.3	1534.0	1248.7	303.5	43.6	43.6	45.4	47.3
27.5°	1663.1	1481.3	1134.2	205.4	38.2	43.6	45.4	47.3
30°	1599.5	1392.3	996.0	130.9	36.4	41.8	45.4	47.3
32.5°	1481.3	1216.0	841.5	78.2	34.5	41.8	47.3	47.3
35°	1245.0	1019.7	667.0	40.0	34.5	41.8	47.3	49.1
37.5°	1088.7	850.6	465.3	27.3	34.5	41.8	47.3	49.1
40°	903.3	614.3	194.5	25.4	34.5	41.8	47.3	50.9
42.5°	625.2	267.2	30.9	23.6	32.7	41.8	49.1	50.9
45°	225.4	34.5	14.5	23.6	32.7	41.8	49.1	50.9
47.5°	20.0	12.7	14.5	23.6	32.7	41.8	49.1	52.7
50°	12.7	12.7	12.7	21.8	32.7	41.8	49.1	52.7
52.5°	12.7	12.7	12.7	21.8	30.9	41.8	50.9	52.7
55°	12.7	12.7	12.7	20.0	30.9	41.8	49.1	52.7
57.5°	12.7	12.7	14.5	20.0	30.9	40.0	49.1	50.9
60°	12.7	12.7	12.7	20.0	29.1	38.2	47.3	49.1
62.5°	10.9	12.7	12.7	18.2	27.3	36.4	45.4	47.3
65°	10.9	10.9	12.7	16.4	25.4	34.5	41.8	45.4
67.5°	9.1	10.9	10.9	14.5	21.8	30.9	38.2	41.8
70°	9.1	9.1	9.1	12.7	20.0	27.3	36.4	38.2
72.5°	7.3	9.1	9.1	10.9	16.4	23.6	30.9	34.5
75°	7.3	7.3	7.3	9.1	14.5	21.8	27.3	29.1
77.5°	5.5	5.5	7.3	7.3	12.7	16.4	23.6	25.4
80°	5.5	5.5	5.5	7.3	9.1	14.5	18.2	20.0
82.5°	3.6	3.6	3.6	5.5	7.3	9.1	12.7	14.5
85°	3.6	3.6	3.6	3.6	5.5	7.3	9.1	9.1
87.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)