

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: P1311694

Luminaire Tested: LDSQA3D17R559040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

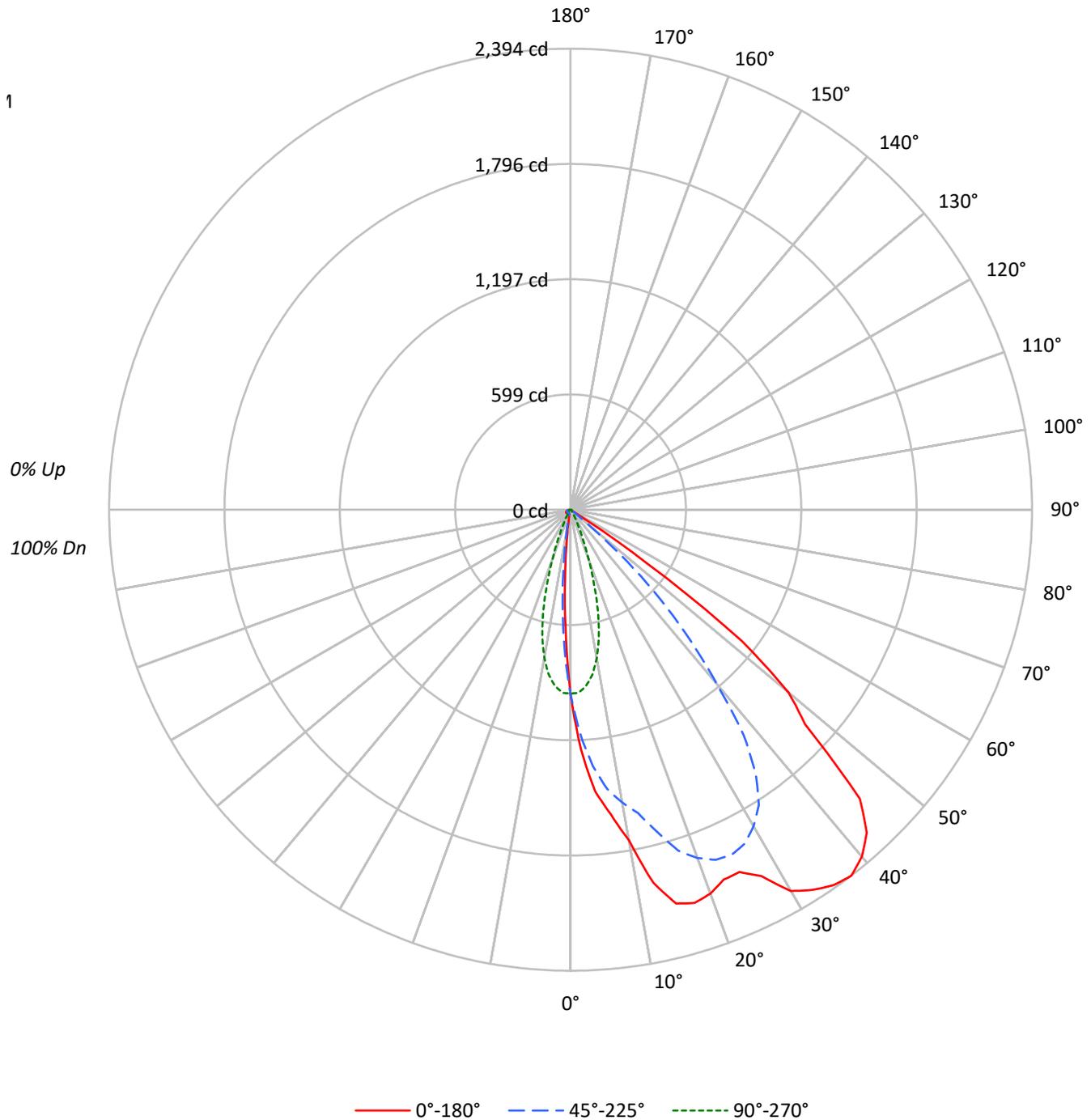
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1594.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	164542	164542	164542	164542	164542
5°	253737	231003	158946	81634	53628
10°	304850	269996	136808	20583	8237
15°	377475	308349	97761	5670	4440
20°	388764	352732	50492	3812	3812
25°	394400	375721	20257	3420	3953
30°	454607	377507	8810	3580	4136
35°	500425	351950	3784	3784	4667
40°	528576	264906	2181	4362	4991
45°	516980	161870	2022	4725	6065
50°	395466	34509	2224	5573	7047
55°	145086	1261	2492	6245	7897
60°	1447	1447	2859	7164	9059
65°	1712	1712	3382	7335	9577
70°	1410	2115	3474	8359	11179
75°	932	1863	3660	9183	12909
80°	1389	2777	4166	9620	13687
85°	0	2766	5533	10868	13635

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 516980 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	5.3
10°-20°	240.9	15.1
20°-30°	369.5	23.2
30°-40°	430.5	27.0
40°-50°	344.0	21.6
50°-60°	101.9	6.4
60°-70°	10.9	0.7
70°-80°	8.6	0.5
80°-90°	3.7	0.2
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°	694.5	43.6
0°-40°	1125.0	70.6
0°-60°	1570.9	98.5
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	955	955	955	955	955	
5°	1468	1336	919	472	310	146
15°	2117	1729	548	32	25	584
25°	2076	1977	107	18	21	986
35°	2380	1674	18	18	22	1482
45°	2123	665	8	19	25	1530
55°	483	4	8	21	26	512
65°	4	4	8	18	24	4
75°	1	3	6	14	19	2
85°	0	1	3	6	7	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°	955.4	955.4	955.4	955.4	955.4	955.4	955.4	955.4	955.4	955.4	955.4
2.5°	1246.2	1246.2	1242.0	1243.4	1240.6	1225.4	1222.6	1203.2	1186.6	1168.6	1153.4
5°	1467.7	1470.5	1466.3	1458.0	1446.9	1435.9	1412.3	1394.3	1370.8	1336.2	1304.3
7.5°	1593.7	1590.9	1584.0	1581.2	1574.3	1561.9	1545.2	1525.9	1498.2	1463.5	1426.2
10°	1743.2	1719.7	1712.8	1701.7	1679.5	1654.6	1625.5	1599.2	1575.7	1543.9	1503.7
12.5°	1984.2	1980.0	1952.3	1931.5	1901.1	1845.7	1795.9	1737.7	1668.5	1613.1	1560.5
15°	2117.1	2119.9	2107.4	2090.8	2071.4	2025.7	1975.9	1908.0	1826.3	1729.4	1643.5
17.5°	2140.6	2144.8	2137.9	2130.9	2125.4	2099.1	2068.6	2020.2	1945.4	1855.4	1728.0
20°	2121.2	2129.5	2130.9	2139.2	2150.3	2139.2	2114.3	2081.1	2018.8	1924.6	1802.8
22.5°	2078.3	2093.5	2104.6	2133.7	2162.8	2162.8	2147.5	2121.2	2060.3	1967.5	1842.9
25°	2075.5	2078.3	2082.5	2129.5	2175.2	2184.9	2171.1	2143.4	2076.9	1977.2	1841.5
27.5°	2144.8	2126.8	2099.1	2146.2	2200.2	2208.5	2189.1	2151.7	2072.8	1955.1	1794.5
30°	2286.0	2245.9	2187.7	2222.3	2259.7	2250.0	2211.2	2151.7	2045.1	1898.3	1705.9
32.5°	2340.0	2317.9	2297.1	2334.5	2341.4	2301.2	2232.0	2143.4	2000.8	1818.0	1560.5
35°	2380.2	2381.5	2373.2	2380.2	2346.9	2290.2	2214.0	2097.7	1917.7	1674.0	1368.0
37.5°	2394.0	2396.8	2378.8	2353.9	2304.0	2238.9	2147.5	2014.6	1779.2	1476.0	1077.2
40°	2351.1	2342.8	2313.7	2279.1	2225.1	2158.6	2058.9	1860.9	1572.9	1178.3	840.5
42.5°	2274.9	2261.1	2226.5	2184.9	2128.2	2043.7	1884.5	1644.9	1278.0	919.4	588.5
45°	2122.6	2112.9	2070.0	2039.5	1971.7	1862.3	1657.4	1355.5	988.6	664.6	340.6
47.5°	1649.1	1650.5	1683.7	1698.9	1675.4	1588.2	1347.2	1030.2	721.4	396.0	114.9
50°	1476.0	1469.1	1435.9	1390.2	1314.0	1183.9	988.6	728.3	426.5	128.8	16.6
52.5°	1120.2	1120.2	1103.5	1080.0	999.7	873.7	668.8	402.9	149.5	22.2	4.2
55°	483.2	458.3	472.2	498.5	477.7	415.4	312.9	120.5	26.3	4.2	4.2
57.5°	6.9	16.6	24.9	40.2	54.0	65.1	34.6	12.5	4.2	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	2.8	2.8	2.8	4.2	2.8	4.2	4.2	4.2	4.2	4.2	4.2
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
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°	955.4	955.4	955.4	955.4	955.4	955.4	955.4	955.4
2.5°	1131.2	1107.7	1068.9	951.2	829.4	717.2	636.9	606.5
5°	1268.3	1225.4	1160.3	919.4	677.1	472.2	355.8	310.2
7.5°	1376.3	1320.9	1226.8	864.0	497.1	252.0	150.9	119.1
10°	1448.3	1387.4	1264.2	782.3	329.5	117.7	56.8	47.1
12.5°	1500.9	1424.8	1278.0	677.1	193.8	54.0	30.5	27.7
15°	1539.7	1441.4	1261.4	548.3	106.6	31.8	24.9	24.9
17.5°	1593.7	1449.7	1221.2	404.3	60.9	23.5	23.5	23.5
20°	1635.2	1449.7	1145.1	275.5	37.4	20.8	20.8	20.8
22.5°	1656.0	1427.5	1052.3	174.5	26.3	19.4	20.8	20.8
25°	1635.2	1373.5	933.2	106.6	20.8	18.0	19.4	20.8
27.5°	1559.1	1265.5	774.0	67.8	16.6	18.0	19.4	20.8
30°	1431.7	1109.1	594.0	44.3	15.2	18.0	19.4	20.8
32.5°	1251.7	876.5	384.9	29.1	13.8	18.0	19.4	20.8
35°	977.5	620.3	232.6	18.0	13.8	18.0	20.8	22.2
37.5°	732.5	414.0	126.0	11.1	13.8	18.0	20.8	22.2
40°	508.2	240.9	54.0	9.7	13.8	19.4	22.2	22.2
42.5°	294.9	95.5	13.8	8.3	13.8	19.4	22.2	23.5
45°	108.0	19.4	4.2	8.3	15.2	19.4	22.2	24.9
47.5°	15.2	4.2	4.2	8.3	15.2	19.4	23.5	24.9
50°	4.2	4.2	4.2	8.3	15.2	20.8	24.9	26.3
52.5°	4.2	4.2	4.2	8.3	15.2	20.8	24.9	26.3
55°	4.2	4.2	4.2	8.3	15.2	20.8	24.9	26.3
57.5°	4.2	4.2	4.2	8.3	15.2	20.8	24.9	26.3
60°	4.2	4.2	4.2	8.3	13.8	20.8	24.9	26.3
62.5°	4.2	4.2	4.2	8.3	13.8	19.4	23.5	24.9
65°	4.2	4.2	4.2	8.3	12.5	18.0	23.5	23.5
67.5°	4.2	4.2	4.2	6.9	12.5	18.0	22.2	23.5
70°	4.2	4.2	4.2	6.9	11.1	16.6	20.8	22.2
72.5°	4.2	4.2	4.2	5.5	9.7	15.2	19.4	20.8
75°	2.8	4.2	4.2	5.5	9.7	13.8	18.0	19.4
77.5°	2.8	4.2	4.2	4.2	8.3	11.1	15.2	16.6
80°	2.8	2.8	4.2	4.2	6.9	9.7	12.5	13.8
82.5°	2.8	2.8	2.8	4.2	5.5	6.9	9.7	9.7
85°	2.8	2.8	2.8	2.8	4.2	5.5	6.9	6.9
87.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)