

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: P1309440

Luminaire Tested: LDSQA3D17R459030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459030DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

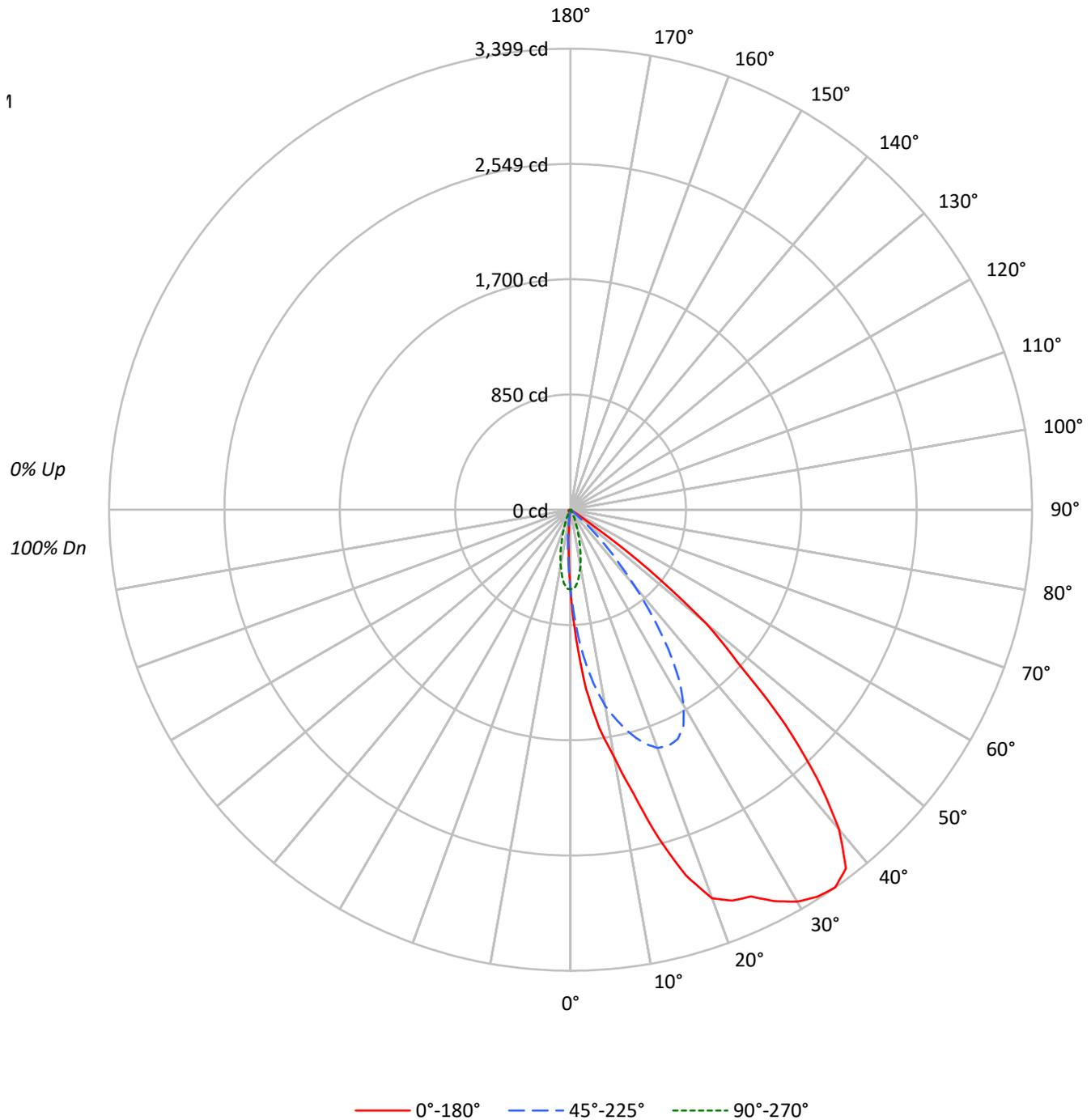
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1540.1 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 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	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	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	100922	100922	100922	100922	100922
5°	230000	186590	94410	37844	25828
10°	324104	256303	72977	8342	3830
15°	446636	304943	46607	2764	2300
20°	558477	342505	24321	1888	1888
25°	597653	354628	11250	1463	1710
30°	663356	331171	5131	1531	1790
35°	714581	264005	1619	1619	2166
40°	691436	163602	877	2023	2608
45°	542992	77160	950	2509	3142
50°	348873	8976	1393	3108	4153
55°	52966	781	1561	3873	5014
60°	896	896	1791	4443	5339
65°	1060	1060	2119	4727	6316
70°	1309	1309	2618	5187	7150
75°	865	1730	3460	5989	7719
80°	1289	2579	3868	6347	8926
85°	0	2569	5138	7707	7707

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 542992 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	4.2
10°-20°	231.9	15.1
20°-30°	407.3	26.5
30°-40°	462.6	30.0
40°-50°	299.5	19.4
50°-60°	58.8	3.8
60°-70°	7.2	0.5
70°-80°	5.9	0.4
80°-90°	2.7	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°	703.3	45.7
0°-40°	1165.9	75.7
0°-60°	1524.2	99.0
0°-90°	1540.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1540.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	586	586	586	586	586	
5°	1330	1079	546	219	149	142
15°	2505	1710	261	16	13	722
25°	3145	1866	59	8	9	1474
35°	3399	1256	8	8	10	2089
45°	2229	317	4	10	13	1680
55°	176	3	5	13	17	337
65°	3	3	5	12	16	3
75°	1	3	5	9	12	2
85°	0	1	3	4	4	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°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	951.8	949.2	953.1	927.3	926.0	906.7	901.5	879.6	850.0	835.9	802.4
5°	1330.4	1317.5	1317.5	1286.6	1276.3	1254.4	1217.1	1170.7	1132.1	1079.3	1022.6
7.5°	1622.8	1620.2	1620.2	1593.1	1567.4	1536.5	1486.3	1433.4	1371.6	1290.5	1208.1
10°	1853.3	1857.2	1845.6	1821.1	1783.8	1750.3	1691.0	1626.6	1550.6	1465.6	1356.2
12.5°	2144.4	2116.0	2107.0	2051.6	2004.0	1939.6	1868.8	1795.4	1701.3	1594.4	1470.8
15°	2505.0	2468.9	2432.9	2359.5	2279.6	2180.4	2069.7	1961.5	1840.4	1710.3	1555.8
17.5°	2827.0	2827.0	2779.3	2663.4	2560.4	2413.6	2264.2	2119.9	1976.9	1805.7	1612.5
20°	3047.2	3035.6	2999.6	2914.5	2797.3	2631.2	2436.7	2234.5	2062.0	1868.8	1644.7
22.5°	3119.3	3116.8	3118.0	3067.8	2973.8	2801.2	2562.9	2324.7	2108.3	1884.2	1629.2
25°	3145.1	3150.2	3163.1	3143.8	3073.0	2900.4	2640.2	2367.2	2122.5	1866.2	1570.0
27.5°	3252.0	3241.7	3255.8	3243.0	3163.1	2957.1	2655.7	2356.9	2091.6	1800.5	1464.4
30°	3335.7	3333.1	3357.6	3346.0	3241.7	2993.1	2641.5	2318.2	2015.6	1665.3	1298.2
32.5°	3383.3	3384.6	3391.1	3343.4	3188.9	2914.5	2572.0	2239.7	1872.6	1488.8	1081.8
35°	3398.8	3391.1	3355.0	3237.8	3026.6	2733.0	2400.7	2052.9	1678.2	1255.7	855.2
37.5°	3331.8	3291.9	3199.2	3024.0	2779.3	2505.0	2181.7	1817.2	1411.6	991.7	637.5
40°	3075.5	3022.7	2905.5	2726.5	2498.6	2233.2	1902.2	1521.0	1094.7	727.7	448.2
42.5°	2691.7	2664.7	2542.3	2386.5	2193.3	1925.4	1584.1	1197.8	810.1	502.3	285.9
45°	2229.4	2194.6	2117.3	1979.5	1827.5	1546.8	1228.7	857.8	552.5	316.8	141.7
47.5°	1671.7	1674.3	1621.5	1517.2	1367.8	1133.4	841.0	575.7	346.4	163.6	32.2
50°	1302.1	1284.1	1209.4	1102.5	928.6	754.7	543.5	363.2	182.9	33.5	2.6
52.5°	721.2	732.8	692.9	658.1	568.0	450.8	320.7	184.2	38.6	3.9	2.6
55°	176.4	186.7	179.0	182.9	189.3	168.7	130.1	36.1	3.9	2.6	2.6
57.5°	3.9	3.9	3.9	3.9	6.4	9.0	9.0	2.6	2.6	2.6	2.6
60°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
70°	2.6	2.6	2.6	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
82.5°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
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°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	785.6	761.2	716.1	582.1	467.5	377.4	323.3	318.1
5°	972.4	906.7	811.4	546.1	345.2	218.9	158.4	149.4
7.5°	1120.5	1027.8	880.9	486.8	235.7	112.0	61.8	51.5
10°	1242.8	1111.5	917.0	417.3	148.1	47.7	25.8	21.9
12.5°	1326.6	1168.1	923.4	340.0	85.0	23.2	16.7	15.5
15°	1380.6	1186.2	892.5	261.4	47.7	15.5	14.2	12.9
17.5°	1402.5	1170.7	833.3	189.3	25.8	11.6	11.6	11.6
20°	1392.2	1120.5	745.7	132.7	16.7	10.3	10.3	10.3
22.5°	1343.3	1034.2	636.2	88.9	11.6	9.0	9.0	9.0
25°	1246.7	917.0	520.3	59.2	7.7	7.7	9.0	9.0
27.5°	1102.5	772.7	398.0	39.9	6.4	7.7	9.0	9.0
30°	920.9	611.8	285.9	25.8	6.4	7.7	7.7	9.0
32.5°	731.5	445.6	188.0	15.5	5.2	7.7	9.0	10.3
35°	530.6	303.9	119.8	7.7	6.4	7.7	9.0	10.3
37.5°	372.2	198.3	69.5	5.2	6.4	7.7	10.3	10.3
40°	242.1	110.8	25.8	3.9	6.4	9.0	10.3	11.6
42.5°	126.2	38.6	5.2	3.9	6.4	9.0	11.6	12.9
45°	32.2	5.2	1.3	3.9	7.7	10.3	12.9	12.9
47.5°	3.9	1.3	1.3	5.2	7.7	11.6	12.9	14.2
50°	1.3	2.6	2.6	5.2	7.7	11.6	14.2	15.5
52.5°	2.6	2.6	2.6	5.2	9.0	11.6	15.5	16.7
55°	2.6	2.6	2.6	5.2	9.0	12.9	15.5	16.7
57.5°	2.6	2.6	2.6	5.2	9.0	12.9	15.5	15.5
60°	2.6	2.6	2.6	5.2	9.0	12.9	15.5	15.5
62.5°	2.6	2.6	3.9	5.2	9.0	11.6	15.5	15.5
65°	2.6	3.9	3.9	5.2	9.0	11.6	14.2	15.5
67.5°	2.6	2.6	3.9	5.2	9.0	11.6	14.2	15.5
70°	2.6	2.6	3.9	5.2	7.7	10.3	12.9	14.2
72.5°	2.6	2.6	3.9	5.2	7.7	10.3	11.6	12.9
75°	2.6	2.6	3.9	5.2	6.4	9.0	11.6	11.6
77.5°	2.6	2.6	3.9	3.9	6.4	7.7	10.3	10.3
80°	2.6	2.6	3.9	3.9	5.2	6.4	7.7	9.0
82.5°	2.6	2.6	2.6	3.9	3.9	5.2	6.4	6.4
85°	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9
87.5°	1.3	2.6	2.6	2.6	2.6	2.6	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)