

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: P1313537

Luminaire Tested: LDSQA3D09R409727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R409727DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

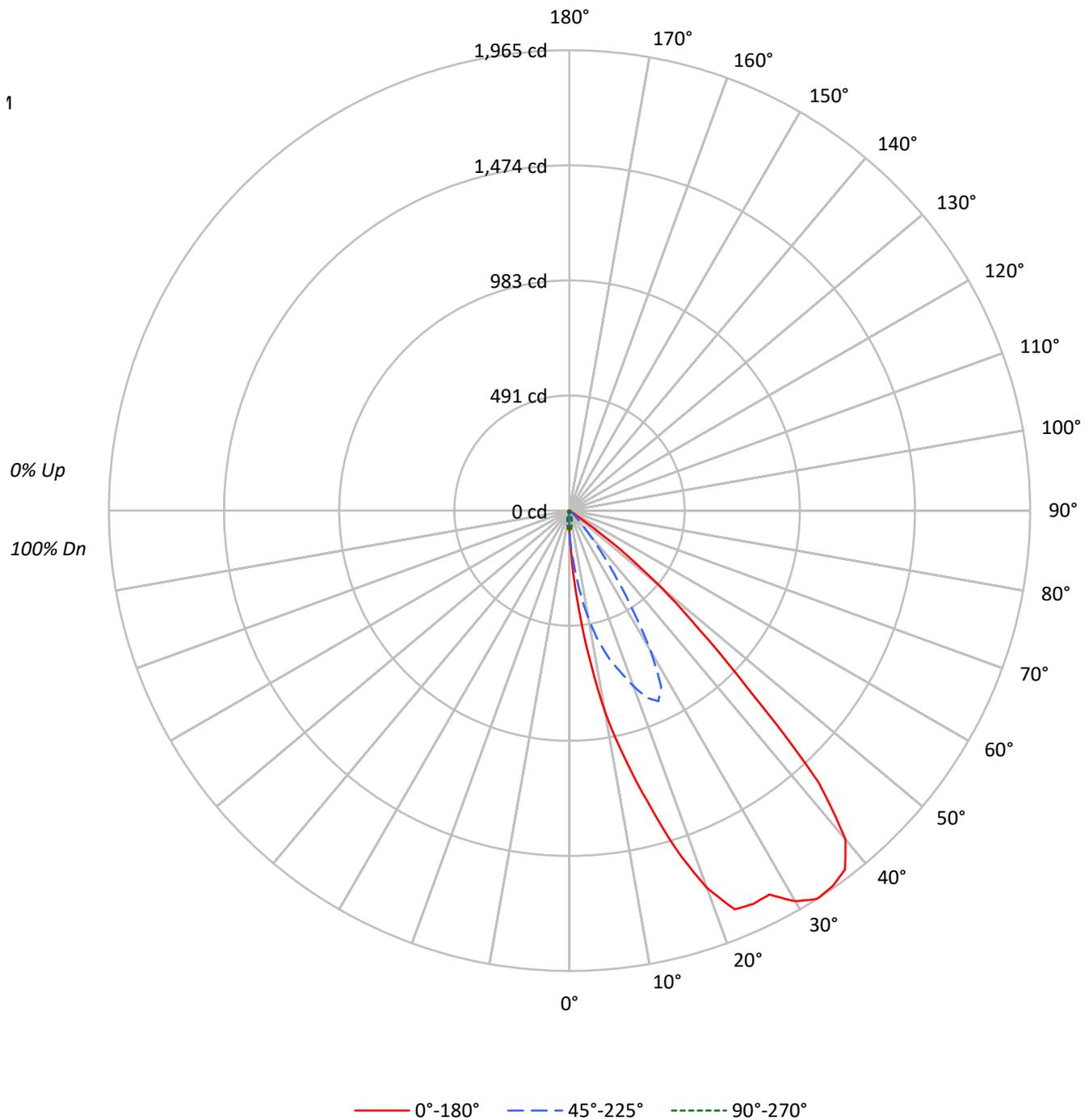
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 725.0 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	89	86	84
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	82	79	76
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67	76	72	68
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	70	65	62
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	64	60	56
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49	59	54	51
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	55	50	46
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	51	46	42
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	47	42	38

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

	0°	45°	90°	135°	180°
0°	14777	14777	14777	14777	14777
5°	66628	42477	13243	5083	3700
10°	152810	82088	9321	1819	1399
15°	229327	116464	5795	981	874
20°	314006	145997	3372	568	678
25°	352005	170587	1748	475	589
30°	382876	137695	736	358	616
35°	411471	70474	252	526	778
40°	411624	28103	135	562	967
45°	262825	9401	292	901	1340
50°	136430	1152	482	1152	1634
55°	11770	180	540	1471	2012
60°	413	207	620	1688	2308
65°	489	245	1019	1752	2486
70°	302	302	1259	1863	2467
75°	399	399	1198	2063	2861
80°	595	595	1785	1785	2479
85°	0	1186	3557	2371	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 262825 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.7	2.3
10°-20°	98.1	13.5
20°-30°	214.9	29.6
30°-40°	244.8	33.8
40°-50°	129.2	17.8
50°-60°	15.2	2.1
60°-70°	2.7	0.4
70°-80°	2.3	0.3
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°	329.8	45.5
0°-40°	574.6	79.3
0°-60°	719.0	99.2
0°-90°	725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	385	246	77	29	21	52
15°	1286	653	32	6	5	379
25°	1852	898	9	2	3	853
35°	1957	335	1	2	4	1213
45°	1079	39	1	4	6	870
55°	39	1	2	5	7	122
65°	1	1	2	4	6	1
75°	1	1	2	3	4	1
85°	0	1	2	1	1	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°	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2.5°	191.2	191.2	190.6	185.1	184.4	183.8	174.0	171.6	159.9	152.0	115.8
5°	385.4	376.8	376.2	366.4	349.9	327.8	313.7	291.1	269.0	245.7	142.8
7.5°	614.0	621.3	601.1	590.7	553.9	527.6	487.1	451.6	402.0	355.4	164.8
10°	873.8	860.9	840.7	820.5	780.7	733.5	673.4	610.3	538.6	469.4	177.1
12.5°	1076.6	1060.1	1047.8	1020.2	981.0	920.4	848.7	764.1	669.1	569.3	176.5
15°	1286.2	1269.6	1242.1	1217.5	1159.3	1091.3	1013.5	902.0	785.6	653.2	163.6
17.5°	1516.6	1495.1	1464.5	1427.1	1370.7	1295.4	1196.7	1060.7	895.9	721.8	140.3
20°	1713.3	1700.4	1669.8	1625.6	1570.5	1497.0	1383.0	1232.3	1031.3	796.6	111.5
22.5°	1841.9	1830.3	1809.5	1770.9	1729.2	1650.8	1546.6	1381.2	1144.6	864.6	84.6
25°	1852.4	1847.5	1841.9	1829.1	1804.0	1748.2	1646.5	1468.2	1215.1	897.7	62.5
27.5°	1846.8	1845.0	1843.8	1837.0	1820.5	1765.4	1661.2	1481.0	1205.9	846.2	46.0
30°	1925.3	1919.8	1916.7	1894.6	1851.1	1766.0	1629.9	1411.8	1071.7	692.4	33.1
32.5°	1965.1	1963.9	1960.8	1939.4	1878.1	1767.2	1577.2	1244.5	849.9	500.0	22.7
35°	1957.1	1951.0	1940.0	1900.2	1815.0	1675.9	1406.9	993.9	613.4	335.2	14.7
37.5°	1930.2	1916.1	1894.6	1823.0	1709.6	1519.6	1141.0	731.6	417.3	216.9	8.6
40°	1830.9	1811.9	1778.2	1690.6	1541.7	1252.5	843.8	494.5	273.9	125.0	2.5
42.5°	1574.2	1549.7	1525.2	1427.1	1256.8	933.8	555.2	305.8	156.3	68.6	0.6
45°	1079.1	1048.4	1014.7	943.6	807.0	565.6	330.3	172.2	80.9	38.6	0.6
47.5°	749.4	735.3	676.5	585.8	449.2	299.6	171.0	84.6	42.9	17.8	0.6
50°	509.2	493.3	424.6	337.0	239.0	143.4	78.4	42.3	19.0	4.3	0.6
52.5°	267.2	247.6	204.0	155.6	96.8	60.1	34.3	18.4	5.5	0.6	0.6
55°	39.2	36.2	29.4	23.9	21.4	16.5	9.8	4.3	0.6	0.6	1.2
57.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.2	0.6	0.6	0.6	1.2
60°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2
65°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2
67.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.8
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.8
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	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°	85.8	85.8	85.8	85.8	85.8
2.5°	84.6	62.5	48.4	41.7	41.1
5°	76.6	44.7	29.4	22.7	21.4
7.5°	65.0	31.3	17.2	12.3	11.6
10°	53.3	21.4	10.4	8.6	8.0
12.5°	42.3	14.1	7.4	6.7	6.1
15°	32.5	9.2	5.5	4.9	4.9
17.5°	24.5	6.1	4.3	4.3	4.3
20°	18.4	4.3	3.1	3.7	3.7
22.5°	12.9	3.1	2.5	3.1	3.1
25°	9.2	2.5	2.5	3.1	3.1
27.5°	6.1	1.8	1.8	2.5	3.1
30°	3.7	1.2	1.8	2.5	3.1
32.5°	1.8	1.2	1.8	3.1	3.1
35°	1.2	1.8	2.5	3.1	3.7
37.5°	0.6	1.8	2.5	3.7	3.7
40°	0.6	1.8	2.5	3.7	4.3
42.5°	1.2	2.5	3.1	4.3	4.9
45°	1.2	2.5	3.7	4.9	5.5
47.5°	1.2	2.5	4.3	5.5	5.5
50°	1.8	3.1	4.3	5.5	6.1
52.5°	1.8	3.1	4.3	6.1	6.7
55°	1.8	3.1	4.9	6.1	6.7
57.5°	1.8	3.7	4.9	6.1	6.7
60°	1.8	3.1	4.9	6.1	6.7
62.5°	2.5	3.1	4.3	6.1	6.1
65°	2.5	3.1	4.3	6.1	6.1
67.5°	2.5	3.1	4.3	5.5	5.5
70°	2.5	3.1	3.7	4.9	4.9
72.5°	2.5	3.1	3.7	4.3	4.9
75°	1.8	2.5	3.1	3.7	4.3
77.5°	1.8	2.5	2.5	3.7	3.7
80°	1.8	1.8	1.8	2.5	2.5
82.5°	1.8	1.8	1.2	1.8	1.8
85°	1.8	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)