

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: P1309106

Luminaire Tested: LDSQA3D09R409030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309106  
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: LDSQA3D09R409030DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

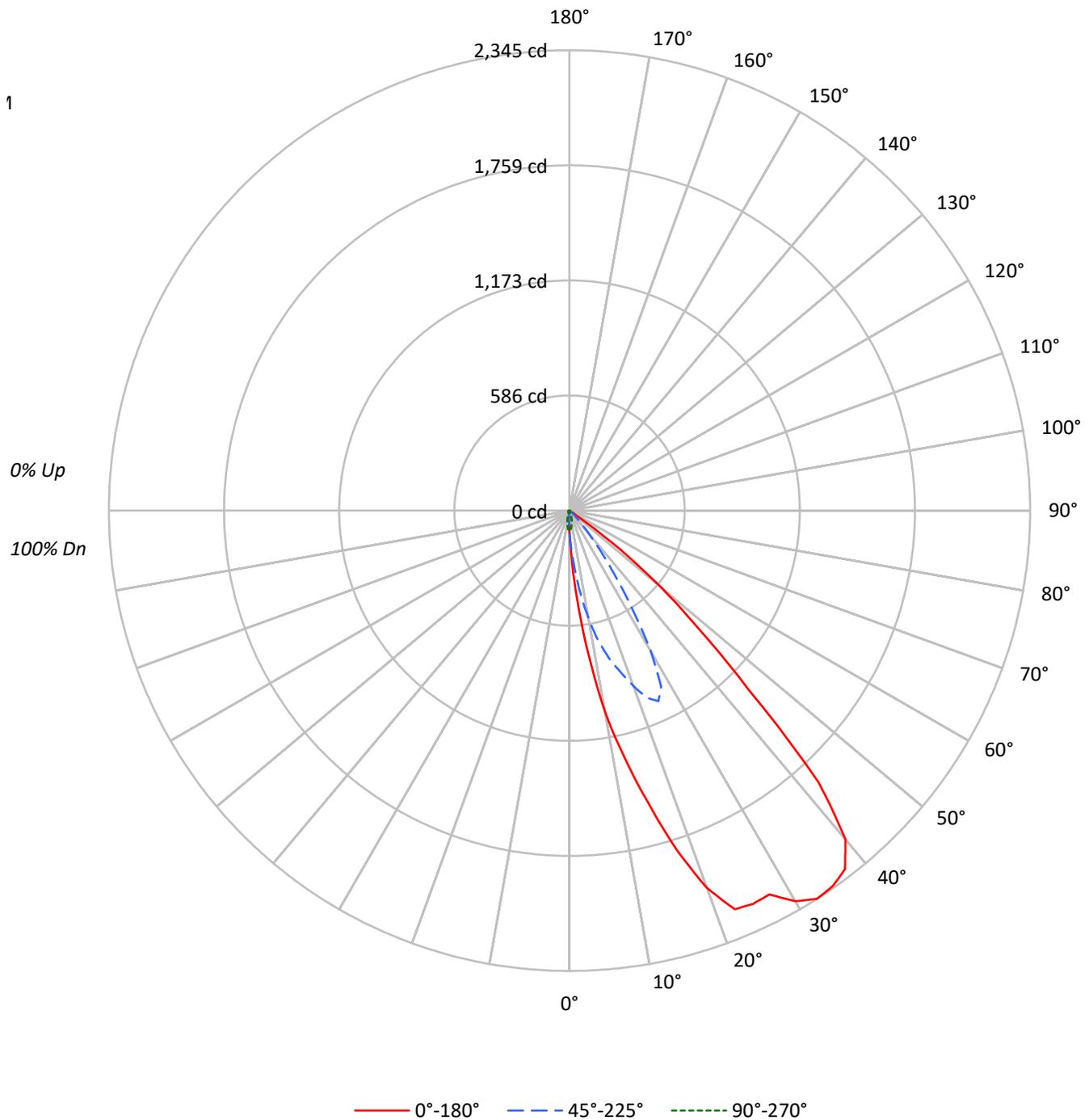
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 865.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.41 / 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 (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	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	70	62	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	56	52	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	17636	17636	17636	17636	17636
5°	79508	50689	15801	6068	4426
10°	182312	97932	11122	2169	1661
15°	273598	138948	6900	1177	1034
20°	374633	174185	4014	678	806
25°	419978	203519	2090	551	703
30°	456814	164283	875	438	736
35°	490943	84077	315	610	925
40°	491121	33521	157	652	1147
45°	313559	11228	365	1072	1607
50°	162768	1366	589	1366	1956
55°	14052	210	661	1742	2402
60°	517	241	758	1998	2756
65°	611	285	1182	2078	2975
70°	352	352	1460	2216	2921
75°	466	466	1464	2462	3394
80°	694	694	2182	2182	2876
85°	0	1383	4347	2964	2964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 313559 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.9	2.3
10°-20°	117.1	13.5
20°-30°	256.4	29.6
30°-40°	292.1	33.8
40°-50°	154.1	17.8
50°-60°	18.2	2.1
60°-70°	3.3	0.4
70°-80°	2.7	0.3
80°-90°	1.2	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°	393.4	45.5
0°-40°	685.5	79.3
0°-60°	857.8	99.2
0°-90°	865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	102	102	102	102	102	
5°	460	293	91	35	26	62
15°	1534	779	39	7	6	452
25°	2210	1071	11	3	4	1018
35°	2335	400	2	3	4	1447
45°	1287	46	2	4	7	1038
55°	47	1	2	6	8	145
65°	2	1	3	5	7	1
75°	1	1	2	4	5	1
85°	0	1	2	2	2	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°	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4
2.5°	228.1	228.1	227.4	220.8	220.1	219.3	207.6	204.7	190.8	181.3	138.2
5°	459.9	449.6	448.9	437.2	417.4	391.1	374.3	347.3	320.9	293.2	170.3
7.5°	732.5	741.3	717.2	704.8	660.9	629.5	581.2	538.8	479.6	424.0	196.7
10°	1042.5	1027.2	1003.0	978.9	931.4	875.1	803.5	728.2	642.6	560.0	211.3
12.5°	1284.5	1264.8	1250.2	1217.3	1170.5	1098.1	1012.5	911.7	798.3	679.2	210.6
15°	1534.5	1514.8	1481.9	1452.7	1383.2	1302.1	1209.2	1076.2	937.2	779.3	195.2
17.5°	1809.4	1783.8	1747.3	1702.7	1635.4	1545.5	1427.8	1265.5	1068.8	861.2	167.4
20°	2044.1	2028.8	1992.2	1939.6	1873.8	1786.0	1650.1	1470.2	1230.4	950.4	133.1
22.5°	2197.6	2183.7	2158.9	2112.8	2063.1	1969.5	1845.3	1647.9	1365.7	1031.6	100.9
25°	2210.1	2204.2	2197.6	2182.3	2152.3	2085.8	1964.4	1751.7	1449.7	1071.0	74.6
27.5°	2203.5	2201.3	2199.8	2191.8	2172.0	2106.2	1982.0	1767.0	1438.8	1009.6	54.8
30°	2297.1	2290.5	2286.8	2260.5	2208.6	2107.0	1944.7	1684.4	1278.7	826.1	39.5
32.5°	2344.6	2343.1	2339.5	2313.9	2240.8	2108.4	1881.8	1484.8	1014.0	596.6	27.1
35°	2335.1	2327.8	2314.6	2267.1	2165.5	1999.5	1678.6	1185.8	731.8	399.9	17.5
37.5°	2302.9	2286.1	2260.5	2175.0	2039.7	1813.1	1361.3	872.9	497.9	258.8	10.2
40°	2184.5	2161.8	2121.6	2017.1	1839.4	1494.3	1006.7	590.0	326.8	149.1	2.9
42.5°	1878.2	1848.9	1819.7	1702.7	1499.5	1114.2	662.4	364.8	186.4	81.9	0.7
45°	1287.4	1250.9	1210.7	1125.9	962.8	674.8	394.1	205.4	96.5	46.1	0.7
47.5°	894.1	877.3	807.1	698.9	535.9	357.5	204.0	100.9	51.2	21.2	0.7
50°	607.5	588.5	506.6	402.1	285.1	171.1	93.6	50.4	22.7	5.1	0.7
52.5°	318.8	295.4	243.5	185.7	115.5	71.6	40.9	21.9	6.6	0.7	0.7
55°	46.8	43.1	35.1	28.5	25.6	19.7	11.7	5.1	0.7	0.7	1.5
57.5°	1.5	1.5	1.5	1.5	2.2	2.2	1.5	0.7	0.7	0.7	1.5
60°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5
65°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5
67.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5	2.2
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.5
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°	102.4	102.4	102.4	102.4	102.4
2.5°	100.9	74.6	57.8	49.7	49.0
5°	91.4	53.4	35.1	27.1	25.6
7.5°	77.5	37.3	20.5	14.6	13.9
10°	63.6	25.6	12.4	10.2	9.5
12.5°	50.4	16.8	8.8	8.0	7.3
15°	38.7	11.0	6.6	5.8	5.8
17.5°	29.2	7.3	5.1	5.1	5.1
20°	21.9	5.1	3.7	4.4	4.4
22.5°	15.4	3.7	2.9	3.7	3.7
25°	11.0	2.9	2.9	3.7	3.7
27.5°	7.3	2.2	2.2	2.9	3.7
30°	4.4	1.5	2.2	2.9	3.7
32.5°	2.2	1.5	2.2	3.7	3.7
35°	1.5	2.2	2.9	3.7	4.4
37.5°	0.7	2.2	2.9	4.4	4.4
40°	0.7	2.2	2.9	4.4	5.1
42.5°	1.5	2.9	3.7	5.1	5.8
45°	1.5	2.9	4.4	5.8	6.6
47.5°	1.5	2.9	5.1	6.6	6.6
50°	2.2	3.7	5.1	6.6	7.3
52.5°	2.2	3.7	5.1	7.3	8.0
55°	2.2	3.7	5.8	7.3	8.0
57.5°	2.2	4.4	5.8	7.3	8.0
60°	2.2	3.7	5.8	7.3	8.0
62.5°	2.9	3.7	5.1	7.3	7.3
65°	2.9	3.7	5.1	7.3	7.3
67.5°	2.9	3.7	5.1	6.6	6.6
70°	2.9	3.7	4.4	5.8	5.8
72.5°	2.9	3.7	4.4	5.1	5.8
75°	2.2	2.9	3.7	4.4	5.1
77.5°	2.2	2.9	2.9	4.4	4.4
80°	2.2	2.2	2.2	2.9	2.9
82.5°	2.2	2.2	1.5	2.2	2.2
85°	2.2	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)