

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: P1312426

Luminaire Tested: LDSQA3D09R459050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R459050DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

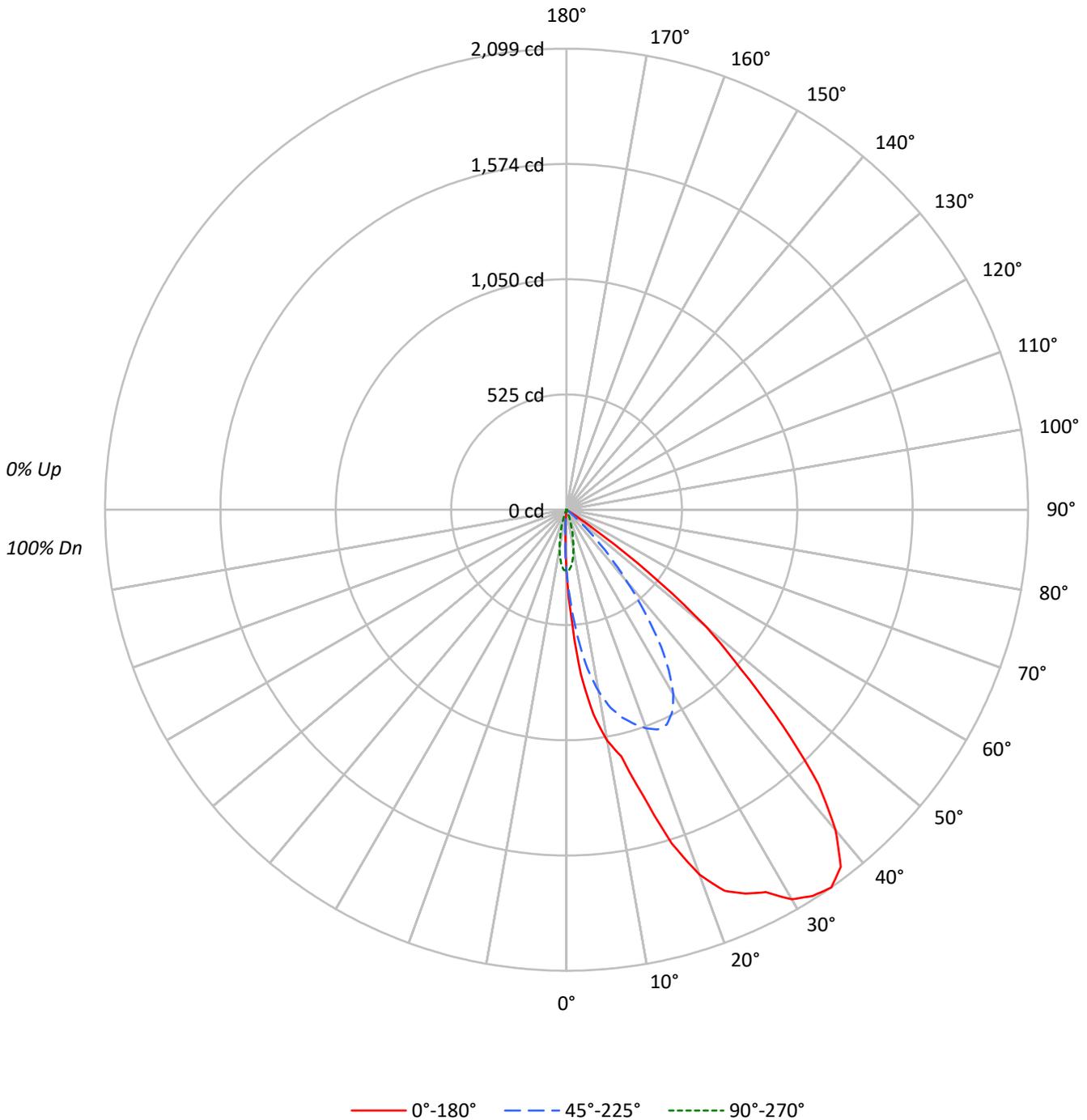
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 890.0 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
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				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	98	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	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	63	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	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	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	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	47602	47602	47602	47602	47602
5°	129954	99994	44050	8834	3319
10°	186649	146689	31846	839	700
15°	240292	174482	16956	285	0
20°	323866	194144	6451	0	0
25°	366314	205096	1672	0	0
30°	407177	193337	159	0	0
35°	441388	154194	0	0	0
40°	427811	96808	0	0	0
45°	339132	46106	0	0	0
50°	221954	5787	0	0	0
55°	38133	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	806	0	0
75°	0	532	1065	0	0
80°	0	793	1587	793	0
85°	0	1581	3162	1581	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 339132 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	3.7
10°-20°	126.8	14.2
20°-30°	237.3	26.7
30°-40°	277.0	31.1
40°-50°	180.7	20.3
50°-60°	33.5	3.8
60°-70°	0.3	0.0
70°-80°	0.7	0.1
80°-90°	0.7	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°	397.0	44.6
0°-40°	674.1	75.7
0°-60°	888.3	99.8
0°-90°	890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	890.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	276	276	276	276	276	
5°	752	578	255	51	19	80
15°	1348	979	95	2	0	402
25°	1928	1079	9	0	0	891
35°	2099	733	0	0	0	1288
45°	1392	189	0	0	0	1059
55°	127	0	0	0	0	221
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	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°	276.4	276.4	276.4	276.4	276.4	276.4	276.4	276.4	276.4	276.4	276.4
2.5°	487.3	491.3	483.3	480.1	469.7	472.1	454.6	447.4	436.2	417.8	409.0
5°	751.7	744.6	738.2	724.6	716.6	695.0	671.1	643.9	611.1	578.4	540.8
7.5°	940.3	934.7	932.3	921.1	905.1	882.8	851.6	817.2	774.9	731.0	674.2
10°	1067.3	1061.7	1052.1	1040.9	1028.2	1009.8	979.4	941.9	895.5	838.8	772.5
12.5°	1150.4	1149.6	1133.6	1120.8	1104.8	1088.9	1057.7	1027.4	981.8	923.5	848.4
15°	1347.7	1334.9	1314.1	1278.2	1233.5	1191.9	1141.6	1093.7	1044.1	978.6	894.7
17.5°	1593.8	1579.4	1544.2	1498.7	1426.8	1347.7	1261.4	1185.5	1111.2	1022.6	923.5
20°	1767.1	1761.5	1732.0	1679.2	1602.5	1497.9	1384.4	1277.4	1172.7	1059.3	937.1
22.5°	1878.2	1875.0	1863.0	1827.0	1748.7	1631.3	1485.1	1341.3	1215.1	1082.5	933.1
25°	1927.7	1931.7	1933.3	1915.7	1852.6	1732.8	1559.4	1390.0	1239.1	1079.3	902.7
27.5°	1962.8	1962.8	1969.2	1961.2	1897.3	1771.1	1588.2	1406.8	1231.1	1040.1	838.8
30°	2047.5	2045.9	2049.9	2028.3	1939.7	1783.1	1575.4	1379.7	1185.5	972.2	746.9
32.5°	2084.3	2085.9	2085.1	2050.7	1947.7	1775.1	1544.2	1327.7	1101.6	866.0	625.5
35°	2099.4	2092.3	2062.7	1984.4	1854.2	1668.8	1456.3	1239.9	984.2	733.4	493.7
37.5°	2049.1	2028.3	1962.8	1855.8	1696.8	1518.7	1311.0	1082.5	828.4	575.2	371.5
40°	1902.9	1875.8	1793.5	1664.1	1518.7	1358.1	1139.2	897.9	647.9	430.6	260.4
42.5°	1696.0	1664.9	1576.2	1463.5	1330.9	1162.4	944.3	703.0	474.5	297.2	165.4
45°	1392.4	1374.9	1323.7	1228.7	1098.5	923.5	723.8	512.9	328.3	189.3	84.7
47.5°	1076.9	1054.5	1017.8	952.3	843.6	677.4	506.5	348.3	210.9	93.5	17.6
50°	828.4	802.1	757.3	684.6	571.2	452.2	328.3	217.3	107.0	21.6	0.8
52.5°	476.9	482.5	461.0	414.6	351.5	270.8	190.1	109.4	24.0	0.8	0.0
55°	127.0	137.4	134.2	144.6	127.0	107.0	79.1	20.8	1.6	0.0	0.0
57.5°	0.0	0.0	0.8	1.6	4.8	7.2	2.4	0.8	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	276.4	276.4	276.4	276.4	276.4	276.4	276.4	276.4
2.5°	389.1	372.3	351.5	274.8	206.9	148.6	115.8	107.0
5°	504.9	464.1	411.4	254.8	127.8	51.1	23.2	19.2
7.5°	614.3	554.4	459.4	222.9	64.7	12.8	6.4	5.6
10°	699.0	618.3	494.5	182.1	24.0	4.8	4.0	4.0
12.5°	757.3	659.1	507.3	138.2	8.8	2.4	2.4	1.6
15°	790.9	675.0	495.3	95.1	3.2	1.6	0.0	0.0
17.5°	801.3	668.7	463.3	59.9	0.8	0.0	0.0	0.0
20°	792.5	637.5	413.0	35.2	0.0	0.0	0.0	0.0
22.5°	763.7	588.8	352.3	19.2	0.0	0.0	0.0	0.0
25°	710.2	520.1	281.2	8.8	0.0	0.0	0.0	0.0
27.5°	623.1	431.4	211.7	3.2	0.0	0.0	0.0	0.0
30°	524.1	336.3	150.2	0.8	0.0	0.0	0.0	0.0
32.5°	409.0	247.7	96.7	0.0	0.0	0.0	0.0	0.0
35°	307.6	173.4	57.5	0.0	0.0	0.0	0.0	0.0
37.5°	214.1	109.4	30.4	0.0	0.0	0.0	0.0	0.0
40°	133.4	59.1	10.4	0.0	0.0	0.0	0.0	0.0
42.5°	74.3	20.8	0.8	0.0	0.0	0.0	0.0	0.0
45°	17.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
70°	0.8	0.8	0.8	1.6	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	1.6	1.6	0.8	0.0	0.0	0.0
75°	0.8	0.8	1.6	1.6	0.8	0.0	0.0	0.0
77.5°	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0
80°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
82.5°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
85°	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0
87.5°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)