

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: P1320318

Luminaire Tested: LDSQA3D17R609840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R609840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

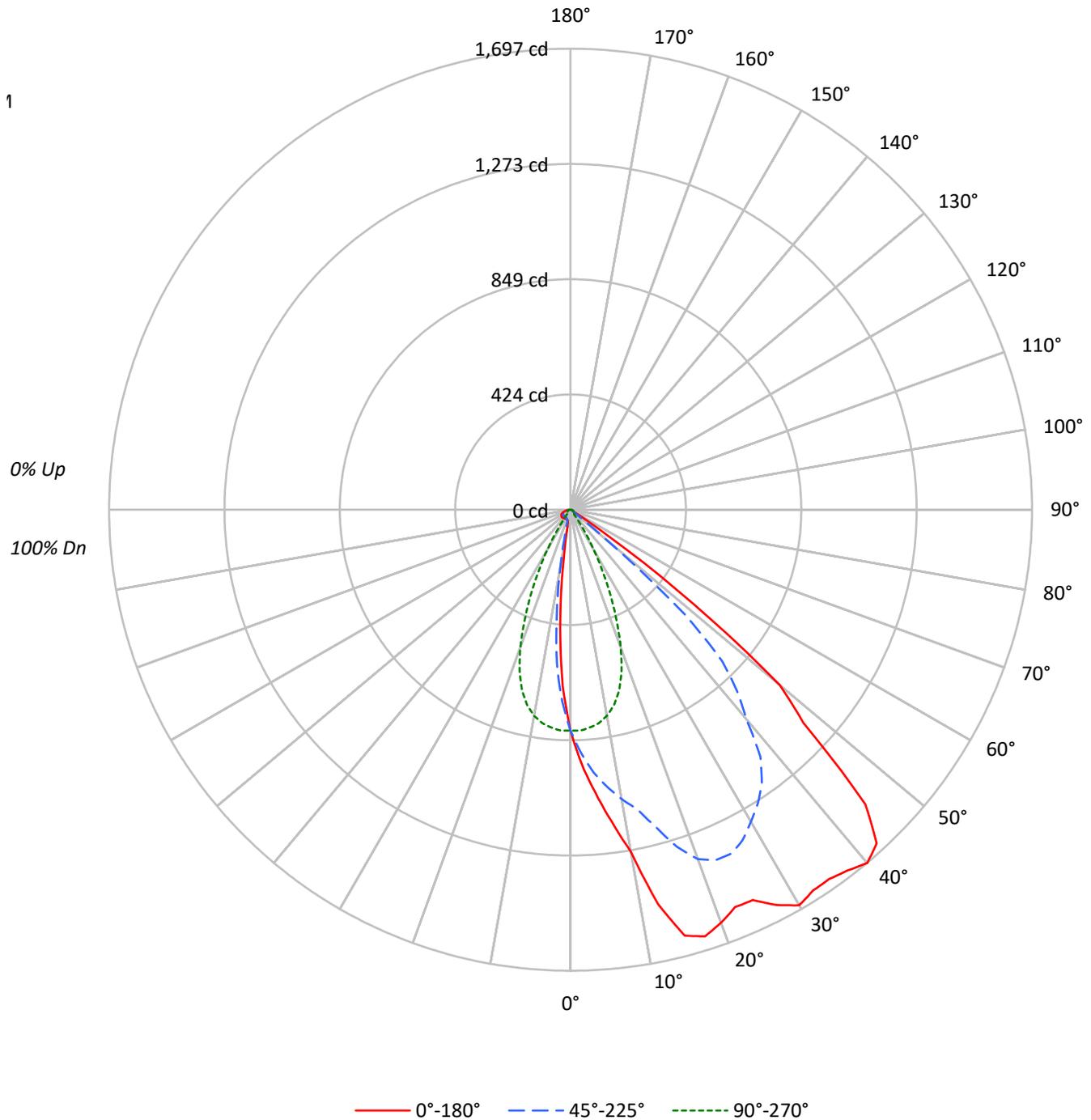
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1320.0 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	47	41	38	36

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

	0°	45°	90°	135°	180°
0°	139948	139948	139948	139948	139948
5°	180764	167832	139186	99112	75618
10°	223391	189167	134692	37494	11122
15°	289306	215313	122883	8220	7328
20°	296466	250794	98895	6855	7074
25°	301230	265467	66300	6632	7107
30°	334333	263696	34205	6682	7438
35°	348754	257823	9440	7064	8115
40°	381611	226102	4474	7554	8970
45°	373353	192144	4555	8184	10010
50°	269137	47424	5010	9002	11012
55°	51645	3003	5225	9728	12341
60°	2583	2997	5167	10299	13296
65°	2527	3056	5094	10677	14222
70°	2518	3122	5035	10675	14452
75°	2462	3327	4991	10780	14905
80°	1190	3670	4959	11108	14877
85°	2371	2371	4940	9880	14820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 373353 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.7	5.4
10°-20°	195.1	14.8
20°-30°	300.3	22.7
30°-40°	352.3	26.7
40°-50°	282.5	21.4
50°-60°	87.7	6.6
60°-70°	16.6	1.3
70°-80°	11.0	0.8
80°-90°	3.8	0.3
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°	566.0	42.9
0°-40°	918.3	69.6
0°-60°	1288.5	97.6
0°-90°	1320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	813	813	813	813	813	
5°	1046	971	805	573	437	107
15°	1623	1208	689	46	41	444
25°	1585	1397	349	35	37	748
35°	1659	1226	45	34	39	1050
45°	1533	789	19	34	41	1097
55°	172	10	17	32	41	272
65°	6	8	12	26	35	6
75°	4	5	8	16	22	3
85°	1	1	2	5	8	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°	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6
2.5°	937.2	927.2	927.2	923.5	919.7	921.0	911.0	914.7	904.8	897.3	891.1
5°	1045.6	1033.1	1031.9	1025.7	1019.4	1014.4	1002.0	994.5	979.5	970.8	952.1
7.5°	1157.8	1147.8	1141.6	1134.1	1122.9	1110.4	1089.2	1075.5	1051.8	1028.2	1004.5
10°	1277.4	1268.7	1255.0	1246.2	1215.1	1195.1	1166.5	1147.8	1112.9	1081.7	1045.6
12.5°	1486.8	1481.8	1455.6	1438.2	1393.3	1353.4	1291.1	1241.3	1178.9	1127.9	1079.2
15°	1622.6	1616.4	1602.7	1586.5	1557.8	1512.9	1456.9	1387.1	1299.8	1207.6	1125.4
17.5°	1646.3	1647.5	1638.8	1635.1	1616.4	1587.7	1542.9	1490.5	1403.3	1301.1	1188.9
20°	1617.6	1627.6	1625.1	1632.6	1636.3	1625.1	1595.2	1544.1	1468.1	1368.4	1242.5
22.5°	1582.7	1591.5	1589.0	1602.7	1623.9	1635.1	1625.1	1584.0	1506.7	1395.8	1272.4
25°	1585.2	1591.5	1572.8	1581.5	1608.9	1636.3	1637.6	1601.4	1517.9	1397.0	1269.9
27.5°	1640.1	1621.4	1579.0	1575.3	1608.9	1643.8	1646.3	1601.4	1501.7	1370.9	1245.0
30°	1681.2	1667.5	1620.1	1613.9	1646.3	1670.0	1657.5	1587.7	1463.1	1326.0	1208.9
32.5°	1661.2	1663.7	1643.8	1663.7	1706.1	1716.1	1663.7	1555.3	1409.5	1282.4	1166.5
35°	1658.8	1668.7	1679.9	1711.1	1739.8	1716.1	1632.6	1494.2	1352.2	1226.3	1100.4
37.5°	1673.7	1689.9	1706.1	1733.5	1733.5	1672.5	1550.3	1417.0	1283.6	1146.5	963.3
40°	1697.4	1707.4	1712.3	1709.8	1676.2	1586.5	1456.9	1323.5	1196.4	1005.7	872.4
42.5°	1666.2	1665.0	1660.0	1638.8	1576.5	1459.4	1338.5	1230.0	1029.4	907.3	755.2
45°	1532.9	1532.9	1519.2	1485.5	1428.2	1331.0	1223.8	1065.5	938.4	788.9	560.8
47.5°	1160.3	1151.5	1166.5	1186.4	1186.4	1177.7	1080.5	943.4	813.8	569.5	179.5
50°	1004.5	990.8	972.1	975.8	973.3	983.3	921.0	817.5	601.9	177.0	12.5
52.5°	568.3	593.2	654.3	740.3	778.9	792.6	754.0	621.9	203.1	11.2	10.0
55°	172.0	177.0	200.6	246.8	335.2	428.7	434.9	201.9	13.7	10.0	10.0
57.5°	7.5	7.5	10.0	15.0	34.9	52.3	56.1	12.5	8.7	10.0	10.0
60°	7.5	7.5	7.5	7.5	7.5	7.5	8.7	8.7	8.7	8.7	10.0
62.5°	6.2	6.2	7.5	7.5	7.5	7.5	7.5	7.5	8.7	8.7	8.7
65°	6.2	6.2	6.2	6.2	6.2	6.2	7.5	7.5	7.5	7.5	8.7
67.5°	5.0	5.0	5.0	6.2	6.2	6.2	6.2	6.2	7.5	7.5	7.5
70°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	6.2	6.2	6.2
72.5°	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	5.0	6.2
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0
77.5°	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7
80°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	812.6	812.6	812.6	812.6	812.6	812.6	812.6	812.6
2.5°	882.3	872.4	861.2	813.8	767.7	705.4	663.0	650.5
5°	935.9	919.7	894.8	805.1	696.7	573.3	473.6	437.4
7.5°	980.8	955.9	921.0	792.6	611.9	388.8	250.5	211.9
10°	1013.2	982.0	937.2	770.2	499.7	214.4	84.7	63.6
12.5°	1040.6	999.5	945.9	736.5	363.9	87.2	43.6	43.6
15°	1059.3	1009.5	949.6	689.2	235.5	46.1	41.1	41.1
17.5°	1085.5	1020.7	949.6	623.1	128.4	39.9	39.9	39.9
20°	1127.9	1031.9	935.9	539.6	71.0	37.4	38.6	38.6
22.5°	1150.3	1048.1	918.5	442.4	44.9	36.1	37.4	37.4
25°	1155.3	1045.6	881.1	348.9	36.1	34.9	36.1	37.4
27.5°	1137.8	1028.2	831.2	254.2	32.4	33.6	36.1	37.4
30°	1106.7	985.8	751.5	172.0	29.9	33.6	36.1	37.4
32.5°	1048.1	883.6	658.0	103.4	28.7	33.6	36.1	38.6
35°	917.2	776.4	550.8	44.9	27.4	33.6	37.4	38.6
37.5°	822.5	669.2	426.2	22.4	27.4	33.6	37.4	39.9
40°	717.8	538.4	196.9	19.9	27.4	33.6	37.4	39.9
42.5°	547.1	249.2	23.7	19.9	26.2	33.6	38.6	39.9
45°	199.4	26.2	12.5	18.7	26.2	33.6	38.6	41.1
47.5°	15.0	10.0	11.2	18.7	26.2	33.6	38.6	41.1
50°	10.0	10.0	11.2	18.7	26.2	33.6	38.6	41.1
52.5°	10.0	11.2	11.2	17.4	24.9	33.6	38.6	41.1
55°	10.0	11.2	11.2	17.4	24.9	32.4	38.6	41.1
57.5°	10.0	10.0	11.2	16.2	23.7	31.2	38.6	39.9
60°	10.0	10.0	11.2	15.0	22.4	29.9	36.1	38.6
62.5°	10.0	10.0	10.0	13.7	21.2	28.7	34.9	37.4
65°	8.7	8.7	10.0	12.5	18.7	26.2	32.4	34.9
67.5°	7.5	8.7	8.7	11.2	17.4	23.7	29.9	32.4
70°	7.5	7.5	7.5	10.0	15.0	21.2	27.4	28.7
72.5°	6.2	6.2	7.5	8.7	13.7	18.7	24.9	26.2
75°	5.0	6.2	6.2	7.5	11.2	16.2	21.2	22.4
77.5°	5.0	5.0	5.0	6.2	10.0	13.7	17.4	18.7
80°	3.7	3.7	3.7	5.0	7.5	11.2	13.7	15.0
82.5°	2.5	3.7	3.7	3.7	6.2	7.5	10.0	11.2
85°	2.5	2.5	2.5	2.5	3.7	5.0	6.2	7.5
87.5°	1.2	1.2	2.5	2.5	2.5	2.5	2.5	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)