

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: P1318723

Luminaire Tested: LDSQA3D20R709830D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709830D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

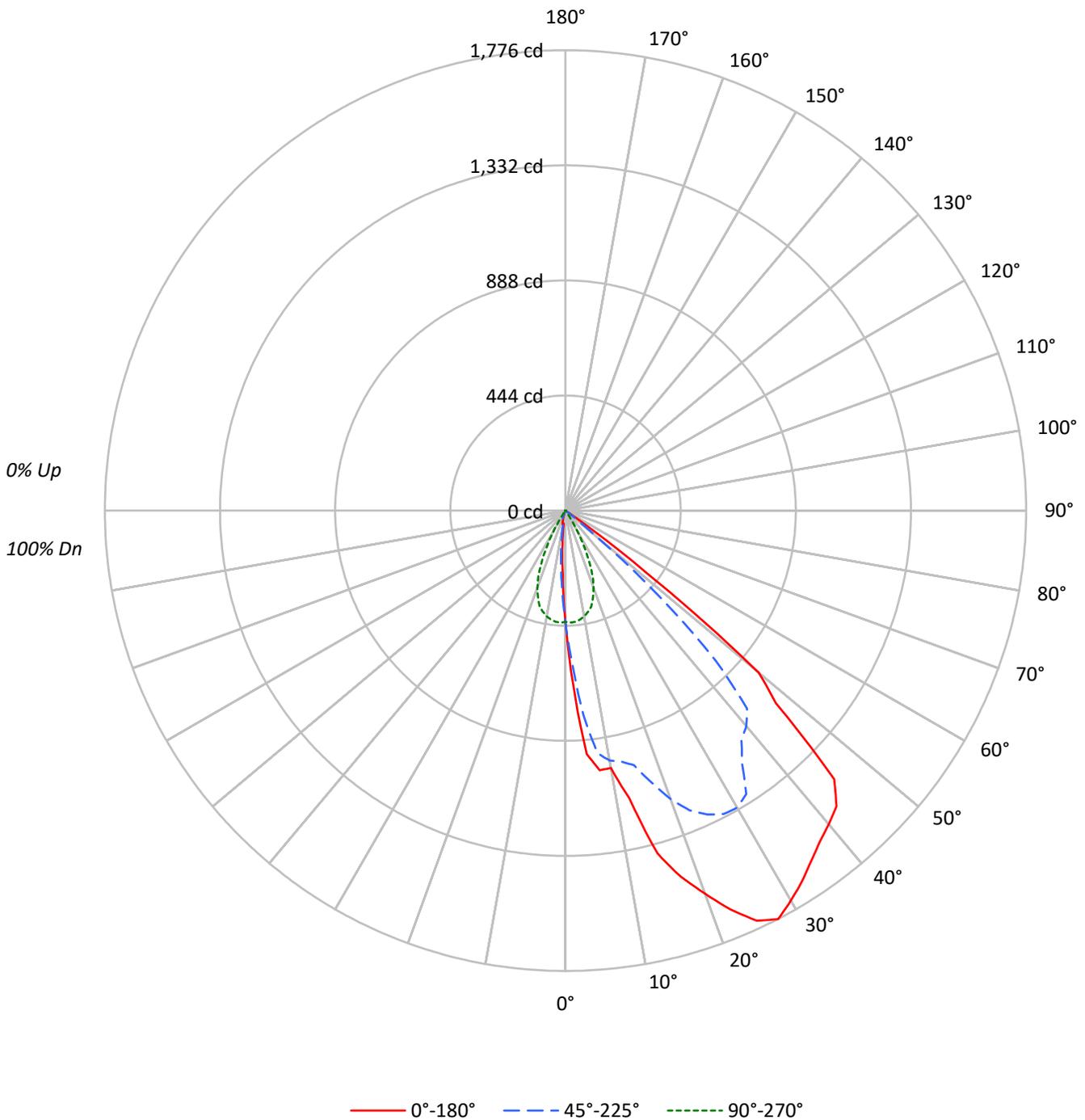
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1156.0 lumens  
Efficiency: N/A  
Efficacy: 42.2 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	58	53	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	73884	73884	73884	73884	73884
5°	163009	136783	74460	33850	22284
10°	176296	171172	72470	9409	9706
15°	244036	181204	68359	9592	6989
20°	288219	217053	58007	5682	2089
25°	331692	245818	40913	931	0
30°	345489	263099	18813	0	0
35°	347094	249351	1030	0	0
40°	355014	243885	0	0	0
45°	356790	199841	0	0	0
50°	260509	41529	0	0	0
55°	14683	0	0	0	0
60°	0	551	551	0	0
65°	0	0	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	1587	1587	0
85°	0	3162	3162	3162	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 363537 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.9	4.1
10°-20°	156.7	13.6
20°-30°	281.7	24.4
30°-40°	342.5	29.6
40°-50°	264.5	22.9
50°-60°	61.5	5.3
60°-70°	0.4	0.0
70°-80°	0.9	0.1
80°-90°	0.9	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°	485.4	42.0
0°-40°	827.9	71.6
0°-60°	1153.9	99.8
0°-90°	1156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	429	429	429	429	429	
5°	943	791	431	196	129	89
15°	1369	1016	383	54	39	383
25°	1746	1294	215	5	0	794
35°	1651	1186	5	0	0	1037
45°	1465	820	0	0	0	1035
55°	49	0	0	0	0	201
65°	0	0	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	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°	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0
2.5°	668.8	668.8	672.1	670.5	655.8	649.3	628.1	616.6	613.4	587.3	577.5
5°	942.9	944.5	936.4	934.7	918.4	907.0	889.1	861.3	833.6	791.2	753.7
7.5°	1009.8	1008.1	1006.5	1006.5	1003.2	996.7	988.6	980.4	969.0	942.9	913.5
10°	1008.1	1008.1	1006.5	1006.5	1004.9	1006.5	1004.9	1000.0	995.1	978.8	962.5
12.5°	1135.4	1125.6	1112.5	1093.0	1060.3	1035.9	1008.1	1000.0	996.7	991.8	982.0
15°	1368.7	1360.5	1332.8	1298.5	1265.9	1210.4	1166.4	1106.0	1058.7	1016.3	995.1
17.5°	1481.2	1486.1	1455.1	1433.9	1402.9	1358.9	1306.7	1244.7	1177.8	1097.9	1034.2
20°	1572.6	1577.5	1551.4	1530.2	1494.3	1448.6	1402.9	1336.0	1272.4	1184.3	1101.1
22.5°	1665.6	1668.8	1644.4	1613.4	1572.6	1525.3	1466.5	1398.0	1329.5	1251.2	1163.1
25°	1745.5	1742.2	1701.4	1657.4	1618.3	1567.7	1510.6	1443.7	1378.4	1293.6	1210.4
27.5°	1776.5	1774.9	1729.2	1686.8	1641.1	1572.6	1522.0	1463.3	1394.8	1319.7	1234.9
30°	1737.3	1763.4	1734.1	1703.1	1647.6	1579.1	1530.2	1460.0	1396.4	1323.0	1226.7
32.5°	1696.6	1729.2	1719.4	1704.7	1639.5	1585.6	1522.0	1456.8	1381.7	1296.9	1150.1
35°	1650.9	1685.1	1686.8	1670.5	1611.7	1557.9	1499.2	1430.7	1345.8	1186.0	1078.3
37.5°	1610.1	1642.7	1652.5	1618.3	1572.6	1500.8	1447.0	1375.2	1221.8	1114.2	1058.7
40°	1579.1	1603.6	1618.3	1564.4	1518.7	1448.6	1386.6	1261.0	1122.3	1084.8	1006.5
42.5°	1546.5	1569.3	1575.8	1517.1	1447.0	1380.1	1290.4	1132.1	1091.3	1035.9	825.4
45°	1464.9	1492.6	1476.3	1419.2	1367.0	1296.9	1163.1	1094.6	1050.6	820.5	507.3
47.5°	1099.5	1130.5	1174.5	1190.8	1208.8	1158.2	1084.8	1060.3	863.0	497.5	158.2
50°	972.3	967.4	967.4	975.5	990.2	1006.5	1027.7	894.0	518.8	155.0	0.0
52.5°	396.4	416.0	512.2	598.7	698.2	797.7	828.7	548.1	202.3	3.3	0.0
55°	48.9	48.9	68.5	117.5	194.1	313.2	352.4	176.2	14.7	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	13.1	35.9	24.5	6.5	1.6	1.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
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°	429.0	429.0	429.0	429.0	429.0	429.0	429.0	429.0
2.5°	561.2	541.6	513.9	432.3	362.1	300.2	264.3	246.3
5°	717.8	670.5	606.8	430.7	293.6	195.8	146.8	128.9
7.5°	867.9	814.0	706.4	424.1	225.1	114.2	63.6	50.6
10°	933.1	894.0	797.7	414.4	163.1	53.8	53.8	55.5
12.5°	959.2	929.8	851.5	399.7	107.7	52.2	55.5	52.2
15°	977.1	949.4	877.6	383.4	62.0	53.8	44.0	39.2
17.5°	986.9	954.3	885.8	352.4	40.8	45.7	27.7	22.8
20°	1017.9	965.7	892.3	316.5	39.2	31.0	14.7	11.4
22.5°	1070.1	988.6	894.0	272.4	31.0	17.9	4.9	0.0
25°	1117.4	1019.6	898.8	215.3	9.8	4.9	0.0	0.0
27.5°	1140.3	1029.4	897.2	151.7	0.0	0.0	0.0	0.0
30°	1112.5	1004.9	882.5	94.6	0.0	0.0	0.0	0.0
32.5°	1047.3	986.9	836.9	40.8	0.0	0.0	0.0	0.0
35°	1026.1	947.8	732.5	4.9	0.0	0.0	0.0	0.0
37.5°	978.8	835.2	538.3	0.0	0.0	0.0	0.0	0.0
40°	841.8	603.6	256.1	0.0	0.0	0.0	0.0	0.0
42.5°	556.3	257.7	14.7	0.0	0.0	0.0	0.0	0.0
45°	195.8	16.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.3	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	0.0	0.0	0.0	0.0	0.0
60°	1.6	1.6	1.6	1.6	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
65°	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0
67.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
70°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
75°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
77.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)