

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: P1315803

Luminaire Tested: LDSQA3D17R459735DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

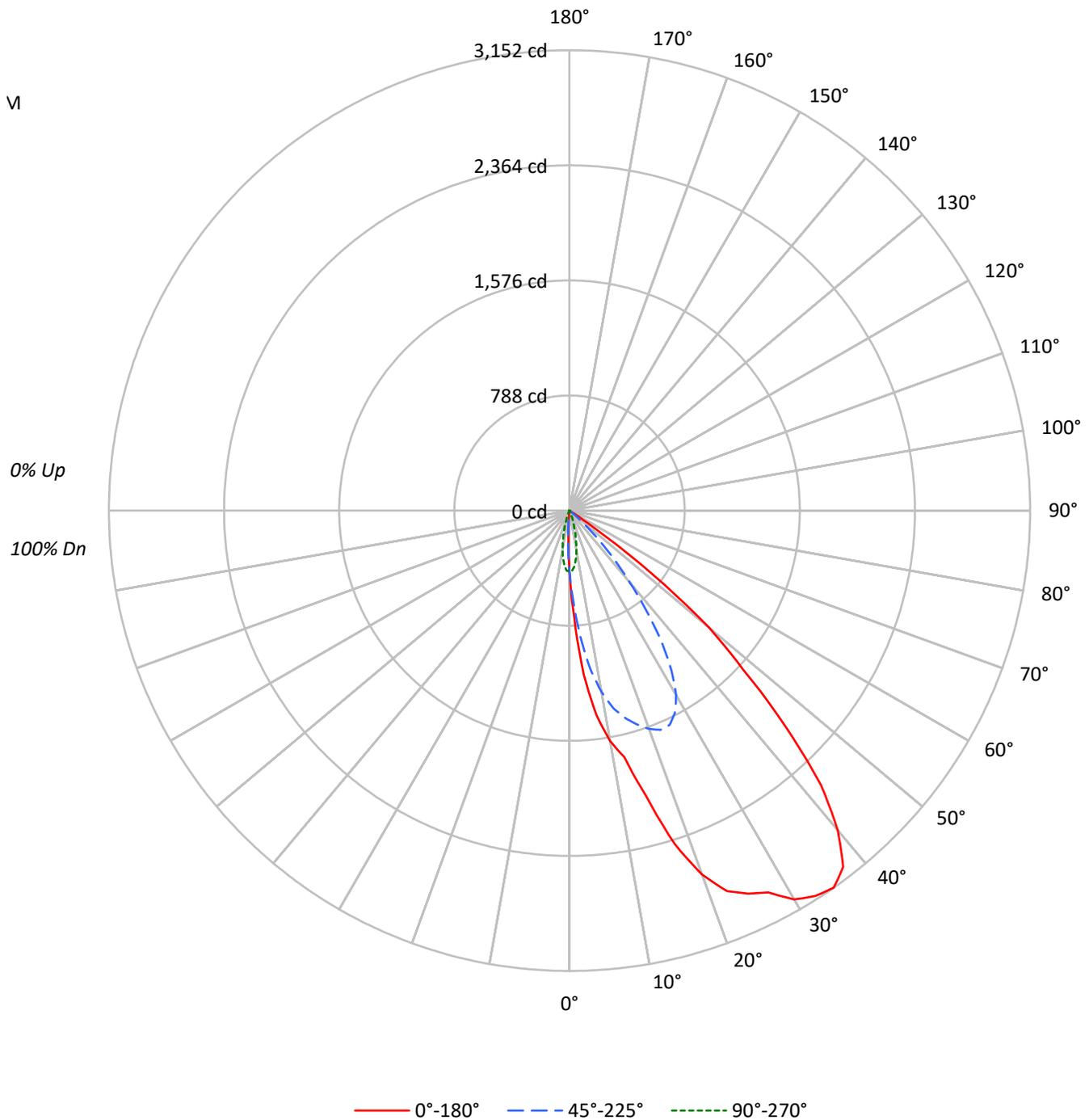
Test Method: LM-79-2019  
Report Number: P1315803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459735DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1336.0 lumens  
Efficiency: N/A  
Efficacy: 63.0 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): 21.2  
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

TEST NUMBER: P1315803  
CATALOG NUMBER: LDSQA3D17R459735DE010 3LSQCA30R 1MMS

### 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	100			100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67			67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37			37

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

	0°	45°	90°	135°	180°
0°	71455	71455	71455	71455	71455
5°	195096	150095	66127	13260	4979
10°	280174	220208	47812	1259	1049
15°	360715	261920	25443	428	0
20°	486157	291445	9677	0	0
25°	549880	307862	2508	0	0
30°	611233	290224	239	0	0
35°	662587	231459	0	0	0
40°	642200	145324	0	0	0
45°	509088	69220	0	0	0
50°	333199	8681	0	0	0
55°	57260	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	1209	0	0
75°	0	799	1597	0	0
80°	0	1190	2380	1190	0
85°	0	2371	4742	2371	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 509088 cd/sqm



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CATALOG NUMBER: LDSQA3D17R459735DE010 3LSQCA30R 1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.4	3.7
10°-20°	190.3	14.2
20°-30°	356.3	26.7
30°-40°	415.9	31.1
40°-50°	271.2	20.3
50°-60°	50.3	3.8
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	1.1	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°	596.0	44.6
0°-40°	1011.9	75.7
0°-60°	1333.4	99.8
0°-90°	1336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	415	415	415	415	415	
5°	1128	868	382	77	29	121
15°	2023	1469	143	2	0	603
25°	2894	1620	13	0	0	1338
35°	3152	1101	0	0	0	1933
45°	2090	284	0	0	0	1589
55°	191	0	0	0	0	331
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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	731.5	737.5	725.5	720.7	705.1	708.7	682.3	671.6	654.8	627.2	614.0
5°	1128.5	1117.7	1108.1	1087.7	1075.7	1043.3	1007.3	966.6	917.4	868.2	811.9
7.5°	1411.5	1403.1	1399.5	1382.7	1358.7	1325.1	1278.4	1226.8	1163.2	1097.3	1012.1
10°	1602.1	1593.7	1579.4	1562.6	1543.4	1515.8	1470.2	1413.9	1344.3	1259.2	1159.6
12.5°	1726.9	1725.7	1701.7	1682.5	1658.5	1634.5	1587.8	1542.2	1473.8	1386.3	1273.6
15°	2023.1	2003.9	1972.7	1918.7	1851.6	1789.2	1713.7	1641.7	1567.4	1469.0	1343.1
17.5°	2392.4	2370.8	2318.1	2249.7	2141.8	2023.1	1893.6	1779.6	1668.1	1535.0	1386.3
20°	2652.6	2644.3	2599.9	2520.7	2405.6	2248.5	2078.2	1917.5	1760.4	1590.2	1406.7
22.5°	2819.3	2814.5	2796.6	2742.6	2625.1	2448.8	2229.3	2013.5	1824.0	1624.9	1400.7
25°	2893.7	2899.7	2902.1	2875.7	2781.0	2601.1	2340.9	2086.6	1860.0	1620.1	1355.1
27.5°	2946.5	2946.5	2956.0	2944.1	2848.1	2658.6	2384.0	2111.8	1848.0	1561.4	1259.2
30°	3073.6	3071.2	3077.2	3044.8	2911.7	2676.6	2364.8	2071.0	1779.6	1459.4	1121.3
32.5°	3128.7	3131.1	3129.9	3078.4	2923.7	2664.6	2318.1	1993.1	1653.7	1299.9	939.0
35°	3151.5	3140.7	3096.4	2978.8	2783.4	2505.1	2186.2	1861.2	1477.4	1100.9	741.1
37.5°	3076.0	3044.8	2946.5	2785.8	2547.1	2279.7	1967.9	1624.9	1243.6	863.4	557.6
40°	2856.5	2815.7	2692.2	2498.0	2279.7	2038.7	1710.1	1347.9	972.6	646.4	390.9
42.5°	2545.9	2499.2	2366.0	2196.9	1997.9	1744.8	1417.5	1055.3	712.3	446.1	248.2
45°	2090.2	2063.8	1987.1	1844.4	1648.9	1386.3	1086.5	769.9	492.9	284.2	127.1
47.5°	1616.5	1583.0	1527.8	1429.5	1266.4	1016.9	760.3	522.9	316.6	140.3	26.4
50°	1243.6	1204.0	1136.8	1027.7	857.4	678.8	492.9	326.2	160.7	32.4	1.2
52.5°	715.9	724.3	691.9	622.4	527.7	406.5	285.4	164.3	36.0	1.2	0.0
55°	190.7	206.3	201.5	217.1	190.7	160.7	118.7	31.2	2.4	0.0	0.0
57.5°	0.0	0.0	1.2	2.4	7.2	10.8	3.6	1.2	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	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	584.0	558.8	527.7	412.5	310.6	223.1	173.9	160.7
5°	757.9	696.7	617.6	382.5	191.9	76.7	34.8	28.8
7.5°	922.2	832.3	689.5	334.6	97.1	19.2	9.6	8.4
10°	1049.3	928.2	742.3	273.4	36.0	7.2	6.0	6.0
12.5°	1136.8	989.3	761.5	207.5	13.2	3.6	3.6	2.4
15°	1187.2	1013.3	743.5	142.7	4.8	2.4	0.0	0.0
17.5°	1202.8	1003.7	695.5	89.9	1.2	0.0	0.0	0.0
20°	1189.6	957.0	620.0	52.8	0.0	0.0	0.0	0.0
22.5°	1146.4	883.8	528.9	28.8	0.0	0.0	0.0	0.0
25°	1066.1	780.7	422.1	13.2	0.0	0.0	0.0	0.0
27.5°	935.4	647.6	317.8	4.8	0.0	0.0	0.0	0.0
30°	786.7	504.9	225.5	1.2	0.0	0.0	0.0	0.0
32.5°	614.0	371.8	145.1	0.0	0.0	0.0	0.0	0.0
35°	461.7	260.2	86.3	0.0	0.0	0.0	0.0	0.0
37.5°	321.4	164.3	45.6	0.0	0.0	0.0	0.0	0.0
40°	200.3	88.7	15.6	0.0	0.0	0.0	0.0	0.0
42.5°	111.5	31.2	1.2	0.0	0.0	0.0	0.0	0.0
45°	26.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	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	1.2	0.0	0.0	0.0	0.0
60°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
65°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
67.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
70°	1.2	1.2	1.2	2.4	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	2.4	2.4	1.2	0.0	0.0	0.0
75°	1.2	1.2	2.4	2.4	1.2	0.0	0.0	0.0
77.5°	1.2	2.4	2.4	2.4	1.2	1.2	0.0	0.0
80°	1.2	2.4	2.4	2.4	2.4	1.2	0.0	0.0
82.5°	1.2	2.4	2.4	2.4	2.4	1.2	0.0	0.0
85°	1.2	2.4	2.4	2.4	1.2	1.2	0.0	0.0
87.5°	1.2	2.4	2.4	2.4	2.4	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)