

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: P1310556

Luminaire Tested: LDSQA3D17R459035DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

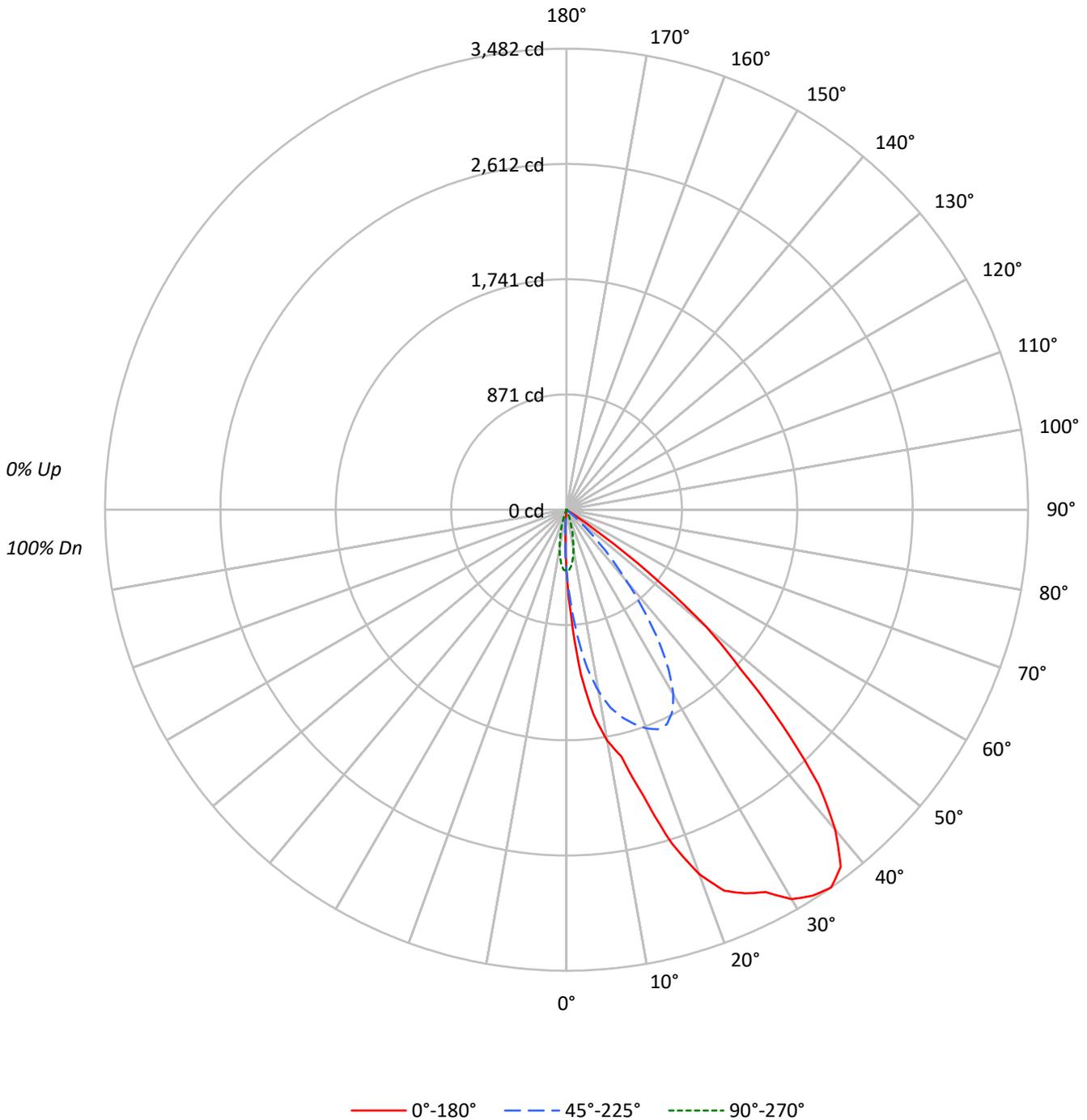
Test Method: LM-79-2019  
Report Number: P1310556  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459035DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1475.9 lumens  
Efficiency: N/A  
Efficacy: 69.6 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 (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

TEST NUMBER: P1310556  
CATALOG NUMBER: LDSQA3D17R459035DE010 3LSQCA30R 1MB

### 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	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°	78947	78947	78947	78947	78947
5°	215530	165827	73059	14660	5498
10°	309537	243275	52831	1382	1154
15°	398514	289378	28118	464	0
20°	537107	321978	10685	0	0
25°	607496	340129	2774	0	0
30°	675288	320651	259	0	0
35°	732031	255700	0	0	0
40°	709489	160544	0	0	0
45°	562452	76478	0	0	0
50°	368110	9592	0	0	0
55°	63265	0	0	0	0
60°	0	0	448	0	0
65°	0	530	530	0	0
70°	0	655	1309	0	0
75°	0	865	1730	0	0
80°	0	1289	2579	1289	0
85°	0	2569	5138	2569	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 562452 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	3.7
10°-20°	210.3	14.2
20°-30°	393.6	26.7
30°-40°	459.4	31.1
40°-50°	299.6	20.3
50°-60°	55.6	3.8
60°-70°	0.5	0.0
70°-80°	1.1	0.1
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°	658.5	44.6
0°-40°	1117.9	75.7
0°-60°	1473.2	99.8
0°-90°	1475.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	458	458	458	458	458	
5°	1247	959	423	85	32	134
15°	2235	1623	158	3	0	666
25°	3197	1790	15	0	0	1478
35°	3482	1216	0	0	0	2136
45°	2309	314	0	0	0	1756
55°	211	0	0	0	0	366
65°	0	1	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	1	0	0
90°	0	0	0	0	0	0



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CATALOG NUMBER: LDSQA3D17R459035DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4
2.5°	808.2	814.8	801.5	796.2	779.0	783.0	753.9	741.9	723.4	692.9	678.3
5°	1246.7	1234.8	1224.2	1201.7	1188.4	1152.6	1112.9	1067.8	1013.5	959.2	896.9
7.5°	1559.4	1550.1	1546.1	1527.6	1501.1	1464.0	1412.3	1355.3	1285.1	1212.3	1118.2
10°	1770.0	1760.8	1744.9	1726.3	1705.1	1674.6	1624.3	1562.0	1485.2	1391.1	1281.2
12.5°	1907.8	1906.5	1880.0	1858.8	1832.3	1805.8	1754.1	1703.8	1628.3	1531.6	1407.0
15°	2235.1	2213.9	2179.4	2119.8	2045.6	1976.7	1893.2	1813.8	1731.6	1623.0	1483.9
17.5°	2643.1	2619.3	2561.0	2485.5	2366.2	2235.1	2092.0	1966.1	1842.9	1695.8	1531.6
20°	2930.6	2921.3	2872.3	2784.9	2657.7	2484.1	2296.0	2118.5	1944.9	1756.8	1554.1
22.5°	3114.8	3109.5	3089.6	3030.0	2900.1	2705.4	2462.9	2224.5	2015.1	1795.2	1547.5
25°	3196.9	3203.5	3206.2	3177.0	3072.4	2873.7	2586.2	2305.3	2054.9	1789.9	1497.1
27.5°	3255.2	3255.2	3265.8	3252.6	3146.6	2937.2	2633.8	2333.1	2041.6	1725.0	1391.1
30°	3395.7	3393.0	3399.6	3363.9	3216.8	2957.1	2612.7	2288.1	1966.1	1612.4	1238.8
32.5°	3456.6	3459.2	3457.9	3401.0	3230.0	2943.9	2561.0	2201.9	1827.0	1436.2	1037.4
35°	3481.8	3469.8	3420.8	3291.0	3075.0	2767.7	2415.2	2056.2	1632.2	1216.2	818.8
37.5°	3398.3	3363.9	3255.2	3077.7	2814.0	2518.6	2174.1	1795.2	1373.9	953.9	616.1
40°	3155.8	3110.8	2974.3	2759.7	2518.6	2252.3	1889.3	1489.2	1074.5	714.1	431.9
42.5°	2812.7	2761.0	2614.0	2427.2	2207.2	1927.7	1566.0	1165.9	787.0	492.9	274.2
45°	2309.3	2280.1	2195.3	2037.7	1821.7	1531.6	1200.3	850.6	544.5	314.0	140.4
47.5°	1785.9	1748.8	1687.9	1579.2	1399.1	1123.5	840.0	577.6	349.8	155.0	29.1
50°	1373.9	1330.2	1256.0	1135.4	947.3	749.9	544.5	360.4	177.5	35.8	1.3
52.5°	790.9	800.2	764.5	687.6	582.9	449.1	315.3	181.5	39.7	1.3	0.0
55°	210.7	227.9	222.6	239.8	210.7	177.5	131.2	34.4	2.6	0.0	0.0
57.5°	0.0	0.0	1.3	2.6	7.9	11.9	4.0	1.3	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	1.3	1.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
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°	458.4	458.4	458.4	458.4	458.4	458.4	458.4	458.4
2.5°	645.2	617.4	582.9	455.8	343.1	246.4	192.1	177.5
5°	837.3	769.8	682.3	422.6	212.0	84.8	38.4	31.8
7.5°	1018.8	919.5	761.8	369.6	107.3	21.2	10.6	9.3
10°	1159.3	1025.5	820.1	302.1	39.7	7.9	6.6	6.6
12.5°	1256.0	1093.0	841.3	229.2	14.6	4.0	4.0	2.6
15°	1311.6	1119.5	821.4	157.7	5.3	2.6	0.0	0.0
17.5°	1328.8	1108.9	768.4	99.4	1.3	0.0	0.0	0.0
20°	1314.3	1057.2	685.0	58.3	0.0	0.0	0.0	0.0
22.5°	1266.6	976.4	584.3	31.8	0.0	0.0	0.0	0.0
25°	1177.8	862.5	466.4	14.6	0.0	0.0	0.0	0.0
27.5°	1033.4	715.4	351.1	5.3	0.0	0.0	0.0	0.0
30°	869.1	557.8	249.1	1.3	0.0	0.0	0.0	0.0
32.5°	678.3	410.7	160.3	0.0	0.0	0.0	0.0	0.0
35°	510.1	287.5	95.4	0.0	0.0	0.0	0.0	0.0
37.5°	355.1	181.5	50.3	0.0	0.0	0.0	0.0	0.0
40°	221.3	98.0	17.2	0.0	0.0	0.0	0.0	0.0
42.5°	123.2	34.4	1.3	0.0	0.0	0.0	0.0	0.0
45°	29.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.3	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	1.3	0.0	0.0	0.0	0.0
60°	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0
62.5°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
65°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
67.5°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
70°	1.3	1.3	1.3	2.6	1.3	0.0	0.0	0.0
72.5°	1.3	1.3	2.6	2.6	1.3	0.0	0.0	0.0
75°	1.3	1.3	2.6	2.6	1.3	0.0	0.0	0.0
77.5°	1.3	2.6	2.6	2.6	1.3	1.3	0.0	0.0
80°	1.3	2.6	2.6	2.6	2.6	1.3	0.0	0.0
82.5°	1.3	2.6	2.6	2.6	2.6	1.3	0.0	0.0
85°	1.3	2.6	2.6	2.6	1.3	1.3	0.0	0.0
87.5°	1.3	2.6	2.6	2.6	2.6	1.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)