

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: P1311518

Luminaire Tested: LDSQA3D13R459040DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311518  
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: LDSQA3D13R459040DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

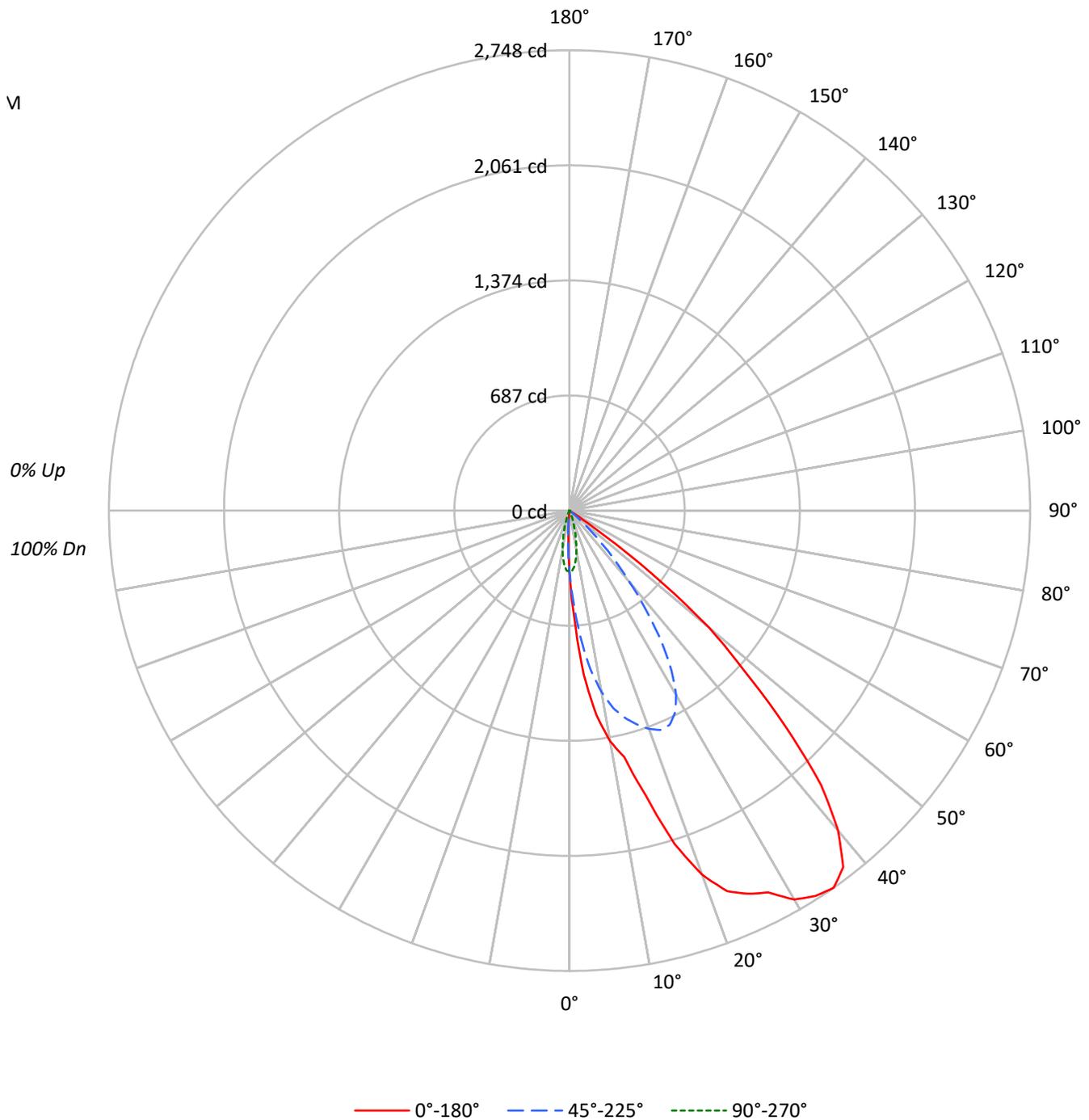
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1165.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 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): 14.6  
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	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°	62310	62310	62310	62310	62310
5°	170114	130888	57673	11566	4339
10°	244324	192018	41691	1102	909
15°	314535	228400	22180	374	0
20°	423935	254130	8431	0	0
25°	479494	268470	2185	0	0
30°	533000	253076	199	0	0
35°	577774	201835	0	0	0
40°	560006	126709	0	0	0
45°	443936	60354	0	0	0
50°	290544	7556	0	0	0
55°	49933	0	0	0	0
60°	0	0	344	0	0
65°	0	408	408	0	0
70°	0	504	1057	0	0
75°	0	665	1397	0	0
80°	0	992	2083	992	0
85°	0	1976	4150	1976	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 443936 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.1	3.7
10°-20°	166.0	14.2
20°-30°	310.7	26.7
30°-40°	362.6	31.1
40°-50°	236.5	20.3
50°-60°	43.9	3.8
60°-70°	0.4	0.0
70°-80°	0.8	0.1
80°-90°	1.0	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°	519.7	44.6
0°-40°	882.4	75.7
0°-60°	1162.8	99.8
0°-90°	1165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	362	362	362	362	362	
5°	984	757	334	67	25	105
15°	1764	1281	124	2	0	526
25°	2523	1413	12	0	0	1167
35°	2748	960	0	0	0	1686
45°	1823	248	0	0	0	1386
55°	166	0	0	0	0	289
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8
2.5°	637.9	643.1	632.7	628.5	614.9	618.0	595.0	585.6	571.0	546.9	535.4
5°	984.0	974.6	966.2	948.5	938.0	909.8	878.4	842.8	800.0	757.1	708.0
7.5°	1230.8	1223.5	1220.4	1205.7	1184.8	1155.5	1114.7	1069.8	1014.3	956.8	882.6
10°	1397.1	1389.8	1377.2	1362.6	1345.8	1321.8	1282.0	1232.9	1172.2	1098.0	1011.2
12.5°	1505.8	1504.8	1483.9	1467.1	1446.2	1425.3	1384.5	1344.8	1285.2	1208.8	1110.6
15°	1764.1	1747.4	1720.2	1673.1	1614.6	1560.2	1494.3	1431.6	1366.8	1281.0	1171.2
17.5°	2086.2	2067.4	2021.4	1961.8	1867.7	1764.1	1651.2	1551.8	1454.6	1338.5	1208.8
20°	2313.1	2305.8	2267.1	2198.1	2097.7	1960.7	1812.2	1672.1	1535.1	1386.6	1226.6
22.5°	2458.5	2454.3	2438.6	2391.6	2289.1	2135.4	1944.0	1755.8	1590.5	1416.9	1221.4
25°	2523.3	2528.5	2530.6	2507.6	2425.0	2268.2	2041.2	1819.5	1621.9	1412.8	1181.7
27.5°	2569.3	2569.3	2577.7	2567.2	2483.6	2318.4	2078.9	1841.5	1611.4	1361.5	1098.0
30°	2680.2	2678.1	2683.3	2655.1	2539.0	2334.0	2062.2	1806.0	1551.8	1272.6	977.7
32.5°	2728.3	2730.4	2729.3	2684.4	2549.5	2323.6	2021.4	1738.0	1442.0	1133.6	818.8
35°	2748.1	2738.7	2700.0	2597.6	2427.1	2184.5	1906.3	1623.0	1288.3	960.0	646.3
37.5°	2682.3	2655.1	2569.3	2429.2	2221.1	1987.9	1716.0	1416.9	1084.4	752.9	486.3
40°	2490.9	2455.3	2347.6	2178.2	1987.9	1777.7	1491.2	1175.4	848.1	563.6	340.9
42.5°	2220.1	2179.3	2063.2	1915.8	1742.2	1521.5	1236.0	920.2	621.2	389.0	216.5
45°	1822.7	1799.7	1732.8	1608.3	1437.9	1208.8	947.4	671.4	429.8	247.8	110.8
47.5°	1409.6	1380.3	1332.2	1246.5	1104.3	886.8	663.0	455.9	276.1	122.3	23.0
50°	1084.4	1049.9	991.3	896.2	747.7	591.9	429.8	284.4	140.1	28.2	1.0
52.5°	624.3	631.6	603.4	542.7	460.1	354.5	248.9	143.3	31.4	1.0	0.0
55°	166.3	179.9	175.7	189.3	166.3	140.1	103.5	27.2	2.1	0.0	0.0
57.5°	0.0	0.0	1.0	2.1	6.3	9.4	3.1	1.0	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	1.0	1.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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°	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8
2.5°	509.3	487.3	460.1	359.7	270.8	194.5	151.6	140.1
5°	660.9	607.6	538.5	333.6	167.3	66.9	30.3	25.1
7.5°	804.2	725.7	601.3	291.8	84.7	16.7	8.4	7.3
10°	915.0	809.4	647.3	238.4	31.4	6.3	5.2	5.2
12.5°	991.3	862.7	664.0	180.9	11.5	3.1	3.1	2.1
15°	1035.3	883.6	648.3	124.4	4.2	2.1	0.0	0.0
17.5°	1048.9	875.3	606.5	78.4	1.0	0.0	0.0	0.0
20°	1037.4	834.5	540.6	46.0	0.0	0.0	0.0	0.0
22.5°	999.7	770.7	461.2	25.1	0.0	0.0	0.0	0.0
25°	929.6	680.8	368.1	11.5	0.0	0.0	0.0	0.0
27.5°	815.7	564.7	277.1	4.2	0.0	0.0	0.0	0.0
30°	686.0	440.2	196.6	1.0	0.0	0.0	0.0	0.0
32.5°	535.4	324.2	126.5	0.0	0.0	0.0	0.0	0.0
35°	402.6	226.9	75.3	0.0	0.0	0.0	0.0	0.0
37.5°	280.3	143.3	39.7	0.0	0.0	0.0	0.0	0.0
40°	174.6	77.4	13.6	0.0	0.0	0.0	0.0	0.0
42.5°	97.3	27.2	1.0	0.0	0.0	0.0	0.0	0.0
45°	23.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.0	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	1.0	0.0	0.0	0.0	0.0
60°	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
62.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
65°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
67.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
70°	1.0	1.0	1.0	2.1	1.0	0.0	0.0	0.0
72.5°	1.0	1.0	2.1	2.1	1.0	0.0	0.0	0.0
75°	1.0	1.0	2.1	2.1	1.0	0.0	0.0	0.0
77.5°	1.0	2.1	2.1	2.1	1.0	1.0	0.0	0.0
80°	1.0	2.1	2.1	2.1	2.1	1.0	0.0	0.0
82.5°	1.0	2.1	2.1	2.1	2.1	1.0	0.0	0.0
85°	1.0	2.1	2.1	2.1	1.0	1.0	0.0	0.0
87.5°	1.0	2.1	2.1	2.1	2.1	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)