

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: P1309281

Luminaire Tested: LDSQA3D13R459030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309281
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: LDSQA3D13R459030DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

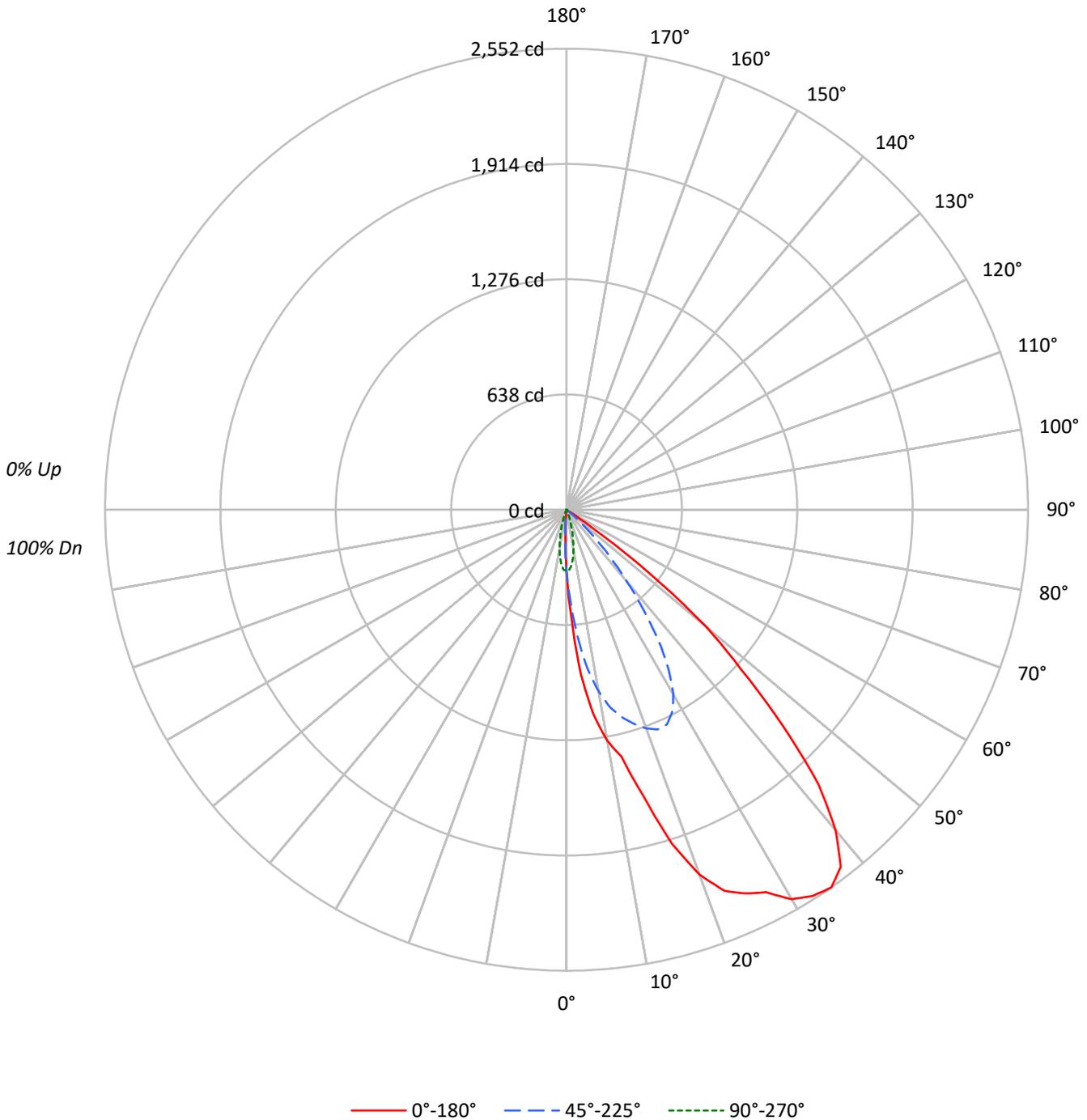
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1082.0 lumens
Efficiency: N/A
Efficacy: 74.1 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°	57867	57867	57867	57867	57867
5°	157995	121570	53558	10753	4028
10°	226906	178342	38718	1014	857
15°	292123	212121	20611	339	0
20°	393731	236022	7826	0	0
25°	445327	249334	2033	0	0
30°	495016	235059	199	0	0
35°	536629	187454	0	0	0
40°	520100	117694	0	0	0
45°	412298	56067	0	0	0
50°	269860	7020	0	0	0
55°	46360	0	0	0	0
60°	0	0	344	0	0
65°	0	408	408	0	0
70°	0	504	957	0	0
75°	0	665	1264	0	0
80°	0	992	1884	992	0
85°	0	1976	3754	1976	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 412298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	3.7
10°-20°	154.1	14.2
20°-30°	288.5	26.7
30°-40°	336.8	31.1
40°-50°	219.6	20.3
50°-60°	40.8	3.8
60°-70°	0.4	0.0
70°-80°	0.8	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°	482.7	44.6
0°-40°	819.5	75.7
0°-60°	1079.9	99.8
0°-90°	1082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	336	336	336	336	336	
5°	914	703	310	62	23	98
15°	1638	1190	116	2	0	488
25°	2344	1312	11	0	0	1084
35°	2552	892	0	0	0	1565
45°	1693	230	0	0	0	1287
55°	154	0	0	0	0	268
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°	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
2.5°	592.4	597.3	587.6	583.7	571.1	574.0	552.6	543.9	530.3	507.9	497.3
5°	913.9	905.2	897.4	880.9	871.2	845.0	815.8	782.8	743.0	703.2	657.5
7.5°	1143.1	1136.3	1133.4	1119.8	1100.4	1073.2	1035.3	993.6	942.1	888.7	819.7
10°	1297.5	1290.7	1279.1	1265.5	1250.0	1227.6	1190.7	1145.1	1088.7	1019.8	939.2
12.5°	1398.5	1397.6	1378.2	1362.6	1343.2	1323.8	1285.9	1249.0	1193.6	1122.7	1031.4
15°	1638.4	1622.9	1597.6	1553.9	1499.6	1449.1	1387.9	1329.6	1269.4	1189.7	1087.8
17.5°	1937.6	1920.1	1877.4	1822.0	1734.6	1638.4	1533.5	1441.3	1351.0	1243.2	1122.7
20°	2148.3	2141.5	2105.6	2041.5	1948.3	1821.0	1683.1	1553.0	1425.7	1287.8	1139.2
22.5°	2283.3	2279.4	2264.9	2221.2	2126.0	1983.2	1805.5	1630.7	1477.2	1316.0	1134.4
25°	2343.5	2348.4	2350.3	2329.0	2252.2	2106.6	1895.8	1689.9	1506.4	1312.1	1097.5
27.5°	2386.3	2386.3	2394.0	2384.3	2306.6	2153.2	1930.8	1710.3	1496.6	1264.5	1019.8
30°	2489.2	2487.3	2492.1	2465.9	2358.1	2167.8	1915.2	1677.3	1441.3	1182.0	908.1
32.5°	2533.9	2535.8	2534.9	2493.1	2367.8	2158.0	1877.4	1614.2	1339.3	1052.8	760.5
35°	2552.4	2543.6	2507.7	2412.5	2254.2	2028.9	1770.5	1507.3	1196.5	891.6	600.2
37.5°	2491.2	2465.9	2386.3	2256.1	2062.9	1846.3	1593.8	1316.0	1007.2	699.3	451.6
40°	2313.4	2280.4	2180.4	2023.0	1846.3	1651.1	1385.0	1091.6	787.7	523.5	316.6
42.5°	2061.9	2024.0	1916.2	1779.3	1618.0	1413.1	1148.0	854.7	576.9	361.3	201.0
45°	1692.8	1671.5	1609.3	1493.7	1335.4	1122.7	879.9	623.5	399.2	230.2	102.9
47.5°	1309.2	1282.0	1237.3	1157.7	1025.6	823.6	615.8	423.4	256.4	113.6	21.4
50°	1007.2	975.1	920.7	832.3	694.4	549.7	399.2	264.2	130.1	26.2	1.0
52.5°	579.8	586.6	560.4	504.1	427.3	329.2	231.1	133.1	29.1	1.0	0.0
55°	154.4	167.0	163.2	175.8	154.4	130.1	96.2	25.3	1.9	0.0	0.0
57.5°	0.0	0.0	1.0	1.9	5.8	8.7	2.9	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°	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
2.5°	473.0	452.6	427.3	334.1	251.5	180.6	140.8	130.1
5°	613.8	564.3	500.2	309.8	155.4	62.2	28.2	23.3
7.5°	746.9	674.0	558.4	271.0	78.7	15.5	7.8	6.8
10°	849.8	751.7	601.2	221.4	29.1	5.8	4.9	4.9
12.5°	920.7	801.3	616.7	168.0	10.7	2.9	2.9	1.9
15°	961.5	820.7	602.2	115.6	3.9	1.9	0.0	0.0
17.5°	974.1	812.9	563.3	72.8	1.0	0.0	0.0	0.0
20°	963.4	775.0	502.1	42.7	0.0	0.0	0.0	0.0
22.5°	928.5	715.8	428.3	23.3	0.0	0.0	0.0	0.0
25°	863.4	632.3	341.9	10.7	0.0	0.0	0.0	0.0
27.5°	757.5	524.5	257.4	3.9	0.0	0.0	0.0	0.0
30°	637.1	408.9	182.6	1.0	0.0	0.0	0.0	0.0
32.5°	497.3	301.1	117.5	0.0	0.0	0.0	0.0	0.0
35°	373.9	210.8	69.9	0.0	0.0	0.0	0.0	0.0
37.5°	260.3	133.1	36.9	0.0	0.0	0.0	0.0	0.0
40°	162.2	71.9	12.6	0.0	0.0	0.0	0.0	0.0
42.5°	90.3	25.3	1.0	0.0	0.0	0.0	0.0	0.0
45°	21.4	1.9	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	1.9	1.0	0.0	0.0	0.0
72.5°	1.0	1.0	1.9	1.9	1.0	0.0	0.0	0.0
75°	1.0	1.0	1.9	1.9	1.0	0.0	0.0	0.0
77.5°	1.0	1.9	1.9	1.9	1.0	1.0	0.0	0.0
80°	1.0	1.9	1.9	1.9	1.9	1.0	0.0	0.0
82.5°	1.0	1.9	1.9	1.9	1.9	1.0	0.0	0.0
85°	1.0	1.9	1.9	1.9	1.0	1.0	0.0	0.0
87.5°	1.0	1.9	1.9	1.9	1.9	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)