

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: P1315658

Luminaire Tested: LDSQA3D13R459735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459735DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

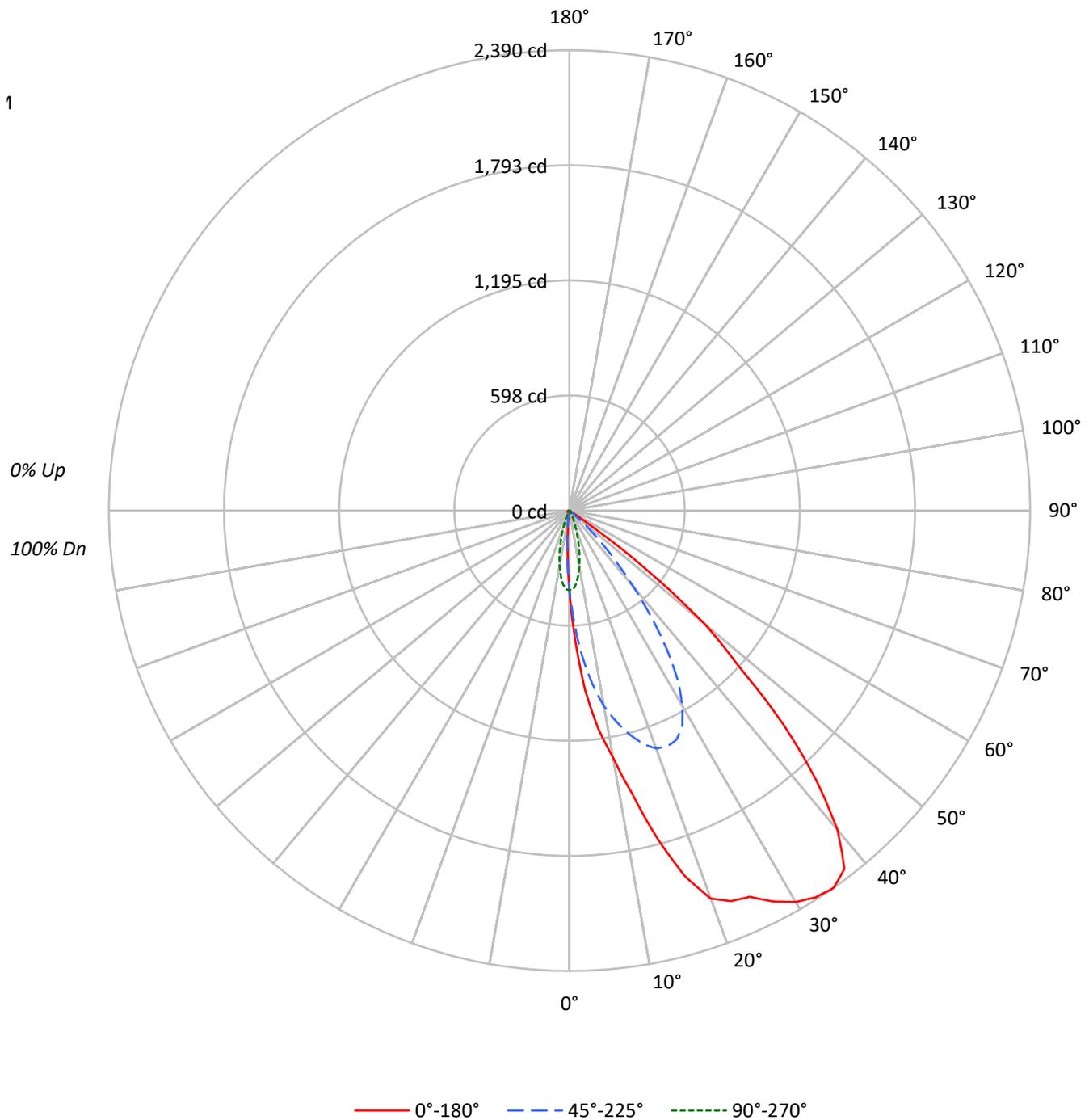
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1083.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	70973	70973	70973	70973	70973
5°	161747	131216	66386	26624	18170
10°	227920	180248	51327	5858	2693
15°	314090	214457	32789	1943	1623
20°	392741	240861	17100	1320	1320
25°	420301	249391	7924	1026	1197
30°	466499	232891	3599	1074	1253
35°	502528	185667	1135	1135	1514
40°	486265	115041	607	1416	1844
45°	381853	54265	658	1754	2216
50°	245344	6296	965	2197	2920
55°	37262	540	1081	2732	3543
60°	620	620	1240	3134	3754
65°	734	734	1467	3342	4442
70°	906	906	1813	3626	5035
75°	599	1198	2396	4192	5456
80°	893	1785	2678	4463	6248
85°	0	1778	3557	5335	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 381853 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	4.2
10°-20°	163.1	15.1
20°-30°	286.5	26.5
30°-40°	325.3	30.0
40°-50°	210.6	19.4
50°-60°	41.3	3.8
60°-70°	5.0	0.5
70°-80°	4.2	0.4
80°-90°	1.9	0.2
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°	494.6	45.7
0°-40°	819.9	75.7
0°-60°	1071.9	99.0
0°-90°	1083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	412	412	412	412	412	
5°	936	759	384	154	105	100
15°	1762	1203	184	11	9	508
25°	2212	1312	42	5	6	1037
35°	2390	883	5	5	7	1469
45°	1568	223	3	7	9	1182
55°	124	2	4	9	12	237
65°	2	2	4	8	11	2
75°	1	2	4	6	8	1
85°	0	1	2	3	3	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°	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1
2.5°	669.3	667.5	670.2	652.1	651.2	637.6	634.0	618.6	597.8	587.8	564.3
5°	935.6	926.6	926.6	904.8	897.6	882.2	855.9	823.3	796.1	759.0	719.1
7.5°	1141.2	1139.4	1139.4	1120.4	1102.3	1080.5	1045.2	1008.1	964.6	907.5	849.6
10°	1303.3	1306.1	1297.9	1280.7	1254.4	1230.9	1189.2	1143.9	1090.5	1030.7	953.7
12.5°	1508.0	1488.1	1481.8	1442.8	1409.3	1364.0	1314.2	1262.6	1196.5	1121.3	1034.3
15°	1761.6	1736.3	1710.9	1659.3	1603.1	1533.4	1455.5	1379.4	1294.3	1202.8	1094.1
17.5°	1988.1	1988.1	1954.5	1873.0	1800.6	1697.3	1592.3	1490.8	1390.3	1269.8	1134.0
20°	2142.9	2134.8	2109.4	2049.6	1967.2	1850.4	1713.6	1571.4	1450.1	1314.2	1156.6
22.5°	2193.7	2191.8	2192.8	2157.4	2091.3	1969.9	1802.4	1634.8	1482.7	1325.1	1145.7
25°	2211.8	2215.4	2224.5	2210.9	2161.1	2039.7	1856.7	1664.7	1492.6	1312.4	1104.1
27.5°	2286.9	2279.7	2289.7	2280.6	2224.5	2079.5	1867.6	1657.5	1470.9	1266.2	1029.8
30°	2345.8	2344.0	2361.2	2353.1	2279.7	2104.9	1857.6	1630.3	1417.5	1171.1	913.0
32.5°	2379.3	2380.2	2384.8	2351.3	2242.6	2049.6	1808.7	1575.0	1316.9	1047.0	760.8
35°	2390.2	2384.8	2359.4	2277.0	2128.4	1921.9	1688.3	1443.7	1180.2	883.1	601.4
37.5°	2343.1	2315.0	2249.8	2126.6	1954.5	1761.6	1534.3	1278.0	992.7	697.4	448.3
40°	2162.9	2125.7	2043.3	1917.4	1757.1	1570.5	1337.8	1069.7	769.9	511.7	315.2
42.5°	1893.0	1873.9	1787.9	1678.3	1542.4	1354.1	1114.0	842.3	569.7	353.2	201.1
45°	1567.8	1543.3	1489.0	1392.1	1285.2	1087.8	864.1	603.2	388.6	222.8	99.6
47.5°	1175.6	1177.4	1140.3	1066.9	961.9	797.0	591.4	404.9	243.6	115.0	22.6
50°	915.7	903.0	850.5	775.3	653.0	530.8	382.2	255.4	128.6	23.5	1.8
52.5°	507.2	515.4	487.3	462.8	399.4	317.0	225.5	129.5	27.2	2.7	1.8
55°	124.1	131.3	125.9	128.6	133.1	118.6	91.5	25.4	2.7	1.8	1.8
57.5°	2.7	2.7	2.7	2.7	4.5	6.3	6.3	1.8	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	412.1	412.1	412.1	412.1	412.1	412.1	412.1	412.1
2.5°	552.5	535.3	503.6	409.4	328.8	265.4	227.3	223.7
5°	683.8	637.6	570.6	384.0	242.7	154.0	111.4	105.1
7.5°	788.0	722.8	619.5	342.4	165.7	78.8	43.5	36.2
10°	874.0	781.6	644.9	293.5	104.2	33.5	18.1	15.4
12.5°	932.9	821.5	649.4	239.1	59.8	16.3	11.8	10.9
15°	970.9	834.2	627.7	183.9	33.5	10.9	10.0	9.1
17.5°	986.3	823.3	586.0	133.1	18.1	8.2	8.2	8.2
20°	979.1	788.0	524.4	93.3	11.8	7.2	7.2	7.2
22.5°	944.7	727.3	447.4	62.5	8.2	6.3	6.3	6.3
25°	876.7	644.9	365.9	41.7	5.4	5.4	6.3	6.3
27.5°	775.3	543.4	279.9	28.1	4.5	5.4	6.3	6.3
30°	647.6	430.2	201.1	18.1	4.5	5.4	5.4	6.3
32.5°	514.4	313.4	132.2	10.9	3.6	5.4	6.3	7.2
35°	373.2	213.8	84.2	5.4	4.5	5.4	6.3	7.2
37.5°	261.8	139.5	48.9	3.6	4.5	5.4	7.2	7.2
40°	170.3	77.9	18.1	2.7	4.5	6.3	7.2	8.2
42.5°	88.8	27.2	3.6	2.7	4.5	6.3	8.2	9.1
45°	22.6	3.6	0.9	2.7	5.4	7.2	9.1	9.1
47.5°	2.7	0.9	0.9	3.6	5.4	8.2	9.1	10.0
50°	0.9	1.8	1.8	3.6	5.4	8.2	10.0	10.9
52.5°	1.8	1.8	1.8	3.6	6.3	8.2	10.9	11.8
55°	1.8	1.8	1.8	3.6	6.3	9.1	10.9	11.8
57.5°	1.8	1.8	1.8	3.6	6.3	9.1	10.9	10.9
60°	1.8	1.8	1.8	3.6	6.3	9.1	10.9	10.9
62.5°	1.8	1.8	2.7	3.6	6.3	8.2	10.9	10.9
65°	1.8	2.7	2.7	3.6	6.3	8.2	10.0	10.9
67.5°	1.8	1.8	2.7	3.6	6.3	8.2	10.0	10.9
70°	1.8	1.8	2.7	3.6	5.4	7.2	9.1	10.0
72.5°	1.8	1.8	2.7	3.6	5.4	7.2	8.2	9.1
75°	1.8	1.8	2.7	3.6	4.5	6.3	8.2	8.2
77.5°	1.8	1.8	2.7	2.7	4.5	5.4	7.2	7.2
80°	1.8	1.8	2.7	2.7	3.6	4.5	5.4	6.3
82.5°	1.8	1.8	1.8	2.7	2.7	3.6	4.5	4.5
85°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
87.5°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)