

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: P1316630

Luminaire Tested: LDSQA3D13R459740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316630
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: LDSQA3D13R459740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

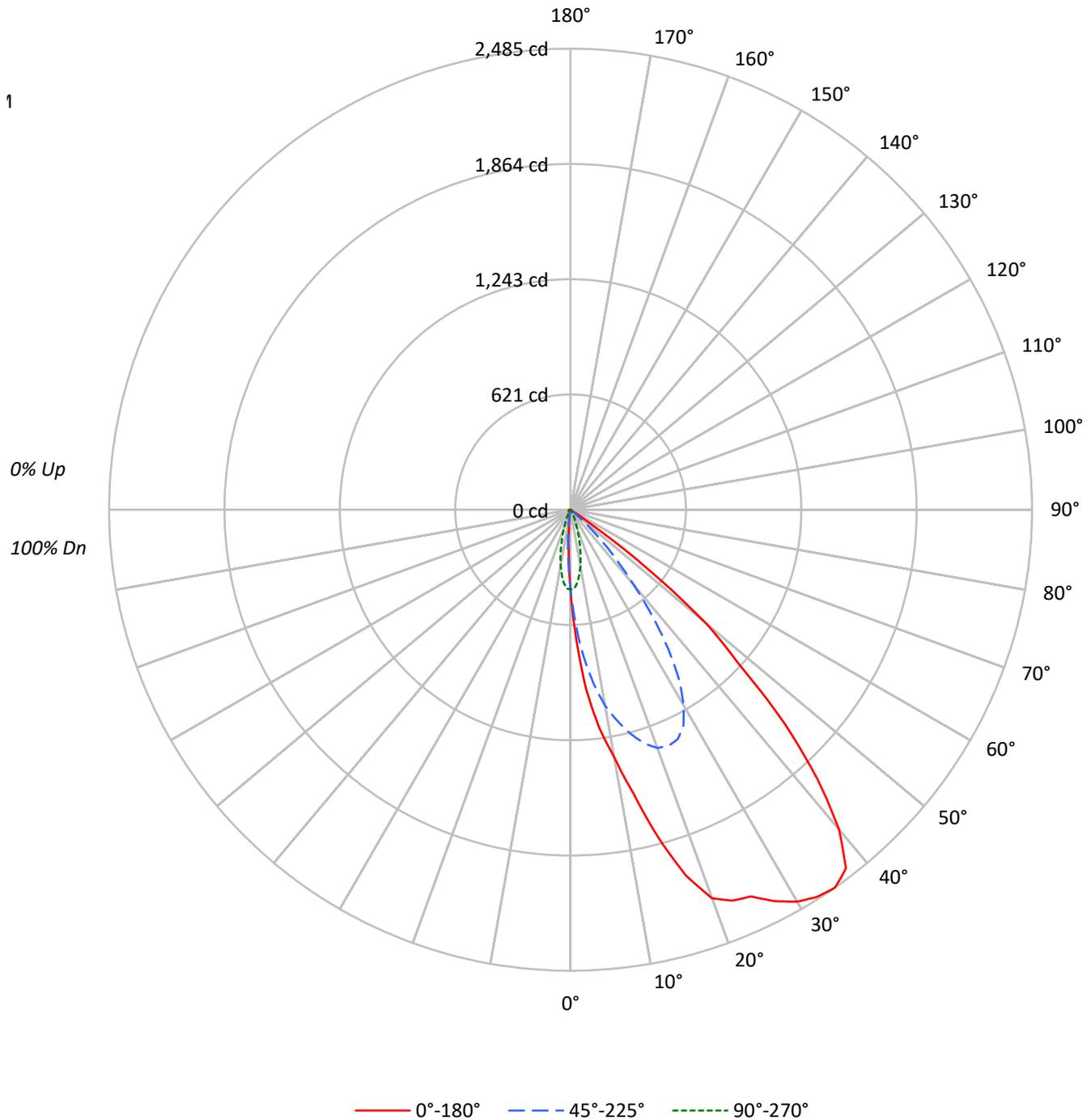
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1126.0 lumens
Efficiency: N/A
Efficacy: 77.1 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 (A_{in}): 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				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	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	73797	73797	73797	73797	73797
5°	168178	136420	69031	27678	18879
10°	236979	187401	53356	6086	2798
15°	326571	222979	34091	2015	1676
20°	408338	250428	17778	1375	1375
25°	436985	259291	8228	1083	1254
30°	485033	242139	3739	1134	1313
35°	522480	193026	1198	1198	1577
40°	505554	119627	629	1484	1911
45°	397026	56433	682	1827	2289
50°	255070	6564	1018	2277	3028
55°	38734	570	1141	2822	3663
60°	654	654	1309	3238	3892
65°	774	774	1549	3464	4605
70°	957	957	1913	3777	5237
75°	599	1264	2529	4392	5656
80°	893	1884	2777	4661	6546
85°	0	1778	3754	5533	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 397026 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	4.2
10°-20°	169.5	15.1
20°-30°	297.8	26.5
30°-40°	338.2	30.0
40°-50°	219.0	19.4
50°-60°	43.0	3.8
60°-70°	5.2	0.5
70°-80°	4.3	0.4
80°-90°	2.0	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°	514.3	45.7
0°-40°	852.5	75.7
0°-60°	1114.5	99.0
0°-90°	1126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	428	428	428	428	428	
5°	973	789	399	160	109	104
15°	1832	1251	191	11	9	528
25°	2300	1364	43	6	7	1078
35°	2485	918	6	6	8	1528
45°	1630	232	3	8	9	1229
55°	129	2	4	9	12	246
65°	2	2	4	8	11	2
75°	1	2	4	7	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°	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5
2.5°	695.9	694.0	696.8	678.0	677.1	662.9	659.2	643.2	621.5	611.2	586.7
5°	972.8	963.3	963.3	940.7	933.2	917.2	889.9	856.0	827.7	789.1	747.7
7.5°	1186.5	1184.6	1184.6	1164.9	1146.0	1123.4	1086.7	1048.1	1002.9	943.6	883.3
10°	1355.1	1357.9	1349.4	1331.5	1304.2	1279.7	1236.4	1189.3	1133.8	1071.6	991.6
12.5°	1567.9	1547.2	1540.6	1500.1	1465.3	1418.2	1366.4	1312.7	1244.0	1165.8	1075.4
15°	1831.6	1805.2	1778.8	1725.2	1666.8	1594.3	1513.3	1434.2	1345.7	1250.6	1137.6
17.5°	2067.0	2067.0	2032.2	1947.4	1872.1	1764.7	1655.5	1550.0	1445.5	1320.2	1179.0
20°	2228.0	2219.5	2193.2	2131.0	2045.3	1923.9	1781.7	1633.8	1507.6	1366.4	1202.5
22.5°	2280.8	2278.9	2279.8	2243.1	2174.3	2048.2	1873.9	1699.7	1541.5	1377.7	1191.2
25°	2299.6	2303.4	2312.8	2298.6	2246.9	2120.7	1930.4	1730.8	1551.9	1364.5	1147.9
27.5°	2377.7	2370.2	2380.6	2371.2	2312.8	2162.1	1941.7	1723.3	1529.3	1316.5	1070.7
30°	2439.0	2437.1	2455.0	2446.5	2370.2	2188.5	1931.4	1695.0	1473.7	1217.6	949.2
32.5°	2473.8	2474.7	2479.4	2444.6	2331.6	2131.0	1880.5	1637.6	1369.2	1088.6	791.0
35°	2485.1	2479.4	2453.1	2367.4	2213.0	1998.3	1755.3	1501.0	1227.0	918.1	625.3
37.5°	2436.1	2406.9	2339.1	2211.1	2032.2	1831.6	1595.2	1328.7	1032.1	725.1	466.1
40°	2248.7	2210.1	2124.4	1993.5	1826.9	1632.9	1390.9	1112.1	800.4	532.1	327.7
42.5°	1968.1	1948.3	1858.9	1744.9	1603.7	1407.8	1158.3	875.8	592.3	367.3	209.1
45°	1630.1	1604.6	1548.1	1447.4	1336.2	1131.0	898.4	627.2	404.0	231.7	103.6
47.5°	1222.3	1224.2	1185.6	1109.3	1000.1	828.7	614.9	420.9	253.3	119.6	23.5
50°	952.0	938.9	884.2	806.1	679.0	551.8	397.4	265.6	133.7	24.5	1.9
52.5°	527.3	535.8	506.6	481.2	415.3	329.6	234.5	134.7	28.3	2.8	1.9
55°	129.0	136.5	130.9	133.7	138.4	123.4	95.1	26.4	2.8	1.9	1.9
57.5°	2.8	2.8	2.8	2.8	4.7	6.6	6.6	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.9
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°	428.5	428.5	428.5	428.5	428.5	428.5	428.5	428.5
2.5°	574.4	556.5	523.6	425.6	341.8	275.9	236.4	232.6
5°	711.0	662.9	593.3	399.3	252.4	160.1	115.8	109.2
7.5°	819.3	751.5	644.1	356.0	172.3	81.9	45.2	37.7
10°	908.7	812.7	670.5	305.1	108.3	34.8	18.8	16.0
12.5°	969.9	854.1	675.2	248.6	62.2	17.0	12.2	11.3
15°	1009.5	867.3	652.6	191.2	34.8	11.3	10.4	9.4
17.5°	1025.5	856.0	609.3	138.4	18.8	8.5	8.5	8.5
20°	1018.0	819.3	545.2	97.0	12.2	7.5	7.5	7.5
22.5°	982.2	756.2	465.2	65.0	8.5	6.6	6.6	6.6
25°	911.5	670.5	380.4	43.3	5.7	5.7	6.6	6.6
27.5°	806.1	565.0	291.0	29.2	4.7	5.7	6.6	6.6
30°	673.3	447.3	209.1	18.8	4.7	5.7	5.7	6.6
32.5°	534.9	325.8	137.5	11.3	3.8	5.7	6.6	7.5
35°	388.0	222.2	87.6	5.7	4.7	5.7	6.6	7.5
37.5°	272.1	145.0	50.9	3.8	4.7	5.7	7.5	7.5
40°	177.0	81.0	18.8	2.8	4.7	6.6	7.5	8.5
42.5°	92.3	28.3	3.8	2.8	4.7	6.6	8.5	9.4
45°	23.5	3.8	0.9	2.8	5.7	7.5	9.4	9.4
47.5°	2.8	0.9	0.9	3.8	5.7	8.5	9.4	10.4
50°	0.9	1.9	1.9	3.8	5.7	8.5	10.4	11.3
52.5°	1.9	1.9	1.9	3.8	6.6	8.5	11.3	12.2
55°	1.9	1.9	1.9	3.8	6.6	9.4	11.3	12.2
57.5°	1.9	1.9	1.9	3.8	6.6	9.4	11.3	11.3
60°	1.9	1.9	1.9	3.8	6.6	9.4	11.3	11.3
62.5°	1.9	1.9	2.8	3.8	6.6	8.5	11.3	11.3
65°	1.9	2.8	2.8	3.8	6.6	8.5	10.4	11.3
67.5°	1.9	1.9	2.8	3.8	6.6	8.5	10.4	11.3
70°	1.9	1.9	2.8	3.8	5.7	7.5	9.4	10.4
72.5°	1.9	1.9	2.8	3.8	5.7	7.5	8.5	9.4
75°	1.9	1.9	2.8	3.8	4.7	6.6	8.5	8.5
77.5°	1.9	1.9	2.8	2.8	4.7	5.7	7.5	7.5
80°	1.9	1.9	2.8	2.8	3.8	4.7	5.7	6.6
82.5°	1.9	1.9	1.9	2.8	2.8	3.8	4.7	4.7
85°	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8
87.5°	0.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)