

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: P1308174

Luminaire Tested: LDSQA3D13R509027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R509027DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

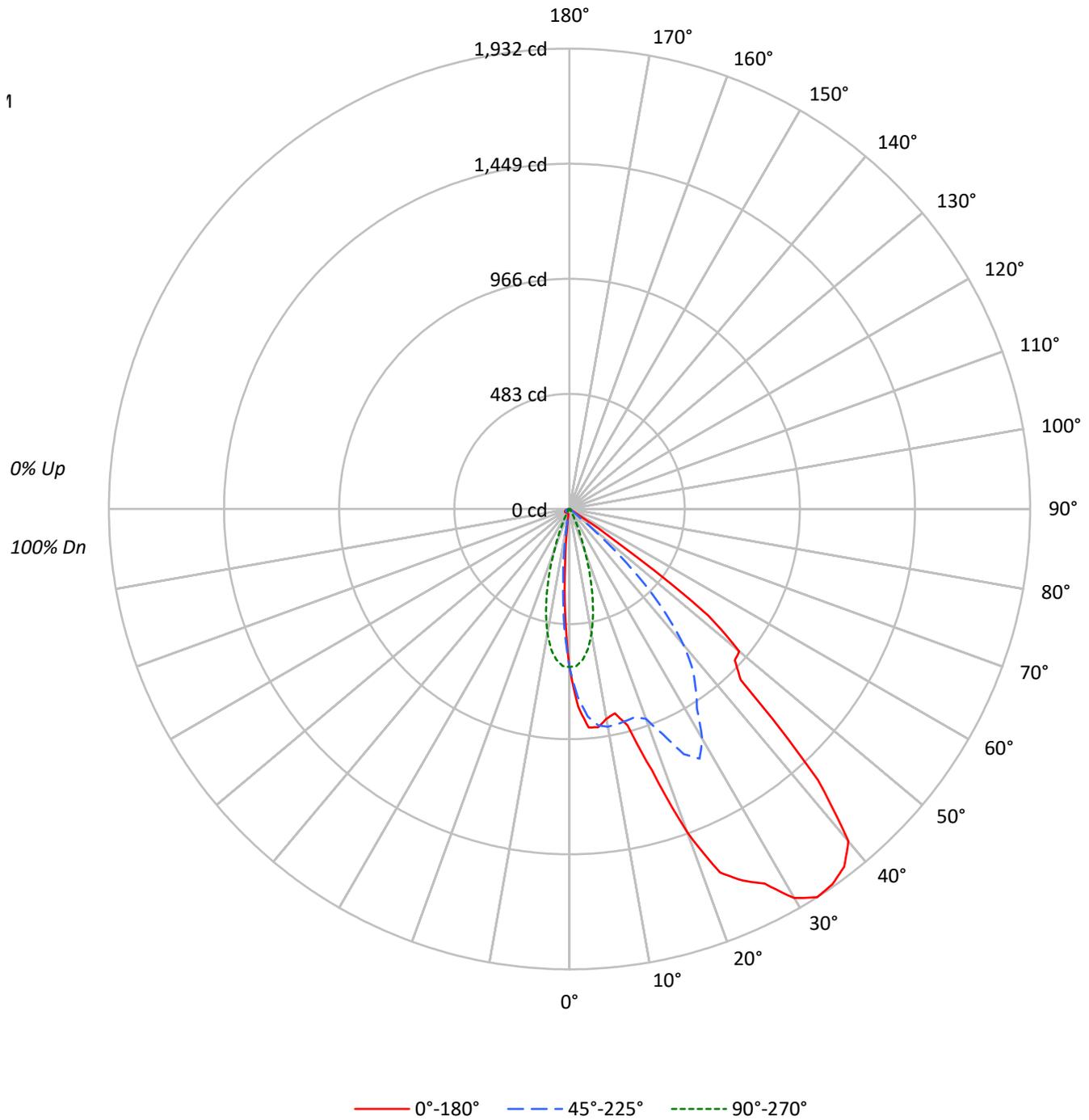
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1031.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	114149	114149	114149	114149	114149
5°	159171	151011	109727	52746	34213
10°	156255	162288	92739	11122	4757
15°	167564	163998	65560	3887	3726
20°	264595	171747	34621	3336	3501
25°	326979	215680	13796	3097	3458
30°	374862	221198	5588	3063	3619
35°	404154	194140	2481	3238	4016
40°	409084	167199	1844	3665	4496
45°	247262	108360	1778	3970	5090
50°	249122	18728	1956	4635	5841
55°	73624	1081	2192	5195	6546
60°	1240	1240	2204	5614	7199
65°	1100	1100	2201	5909	7784
70°	1360	1360	2266	6395	8711
75°	1198	1198	2396	6654	9050
80°	893	1785	2678	6347	9918
85°	1778	3557	3557	7114	8892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 282407 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	5.2
10°-20°	133.1	12.9
20°-30°	249.3	24.2
30°-40°	298.1	28.9
40°-50°	213.6	20.7
50°-60°	65.8	6.4
60°-70°	8.6	0.8
70°-80°	6.2	0.6
80°-90°	2.5	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°	436.0	42.3
0°-40°	734.1	71.2
0°-60°	1013.6	98.3
0°-90°	1031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1031.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	663	663	663	663	663	
5°	921	874	635	305	198	86
15°	940	920	368	22	21	301
25°	1721	1135	73	16	18	793
35°	1922	923	12	15	19	1193
45°	1015	445	7	16	21	932
55°	245	4	7	17	22	316
65°	3	3	5	14	19	3
75°	2	2	4	10	14	2
85°	1	2	2	4	4	1
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°	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8
2.5°	829.0	830.8	833.6	826.3	821.7	818.1	811.8	809.9	794.5	788.2	781.8
5°	920.7	918.9	920.7	918.0	916.2	910.7	905.3	896.2	886.2	873.5	859.0
7.5°	923.4	921.6	925.3	925.3	928.9	928.9	928.9	929.8	924.4	915.3	902.6
10°	893.5	893.5	897.1	895.3	901.7	904.4	910.7	921.6	927.1	928.0	924.4
12.5°	878.0	878.0	879.0	875.3	877.1	879.9	887.1	899.8	912.5	925.3	932.5
15°	939.8	941.6	928.9	910.7	897.1	882.6	878.0	886.2	899.8	919.8	936.2
17.5°	1149.5	1152.3	1138.6	1095.1	1053.3	993.4	939.8	913.5	898.9	915.3	937.1
20°	1443.7	1433.7	1410.1	1363.8	1303.0	1210.4	1126.8	1042.4	961.6	937.1	944.3
22.5°	1651.7	1648.0	1629.0	1577.2	1524.5	1438.3	1332.0	1214.0	1096.9	1022.4	983.4
25°	1720.7	1717.9	1700.7	1669.8	1640.8	1575.4	1480.1	1361.1	1238.5	1135.0	1036.9
27.5°	1772.4	1768.8	1741.6	1707.1	1677.1	1610.8	1523.6	1433.7	1321.2	1181.3	1030.6
30°	1885.0	1875.0	1836.9	1775.2	1717.9	1626.2	1530.0	1418.3	1265.8	1112.3	965.2
32.5°	1932.2	1926.8	1894.1	1844.2	1781.5	1661.7	1515.5	1328.4	1127.7	995.2	888.0
35°	1922.3	1914.1	1880.5	1823.3	1747.0	1631.7	1436.5	1179.5	1016.1	923.4	802.7
37.5°	1892.3	1880.5	1840.5	1773.3	1680.7	1530.0	1274.8	1058.7	953.4	849.0	686.5
40°	1819.6	1800.6	1754.3	1684.4	1591.7	1393.8	1127.7	986.1	888.0	743.7	556.6
42.5°	1541.8	1531.8	1554.5	1542.7	1461.0	1227.6	1023.3	919.8	784.5	601.1	403.2
45°	1015.2	1032.4	1073.3	1143.2	1159.5	1056.0	938.0	810.9	645.6	444.9	232.4
47.5°	939.8	936.2	946.1	959.8	962.5	918.9	811.8	670.1	479.4	254.2	64.5
50°	929.8	924.4	916.2	899.8	865.3	780.9	659.2	488.5	276.9	69.9	4.5
52.5°	734.6	729.1	729.1	705.5	661.0	579.3	454.9	268.8	77.2	4.5	3.6
55°	245.2	261.5	258.8	257.9	277.9	256.1	196.1	69.0	6.4	3.6	3.6
57.5°	4.5	4.5	4.5	8.2	12.7	18.2	10.9	5.4	3.6	3.6	3.6
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6
67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7
77.5°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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°	662.8	662.8	662.8	662.8	662.8	662.8	662.8	662.8
2.5°	767.3	754.6	730.0	660.1	582.9	494.9	434.9	427.7
5°	836.3	817.2	777.3	634.7	458.5	305.1	227.0	197.9
7.5°	881.7	856.3	807.2	592.9	334.1	160.7	86.3	69.0
10°	908.9	885.3	822.7	530.3	212.5	63.6	29.1	27.2
12.5°	923.4	900.7	828.1	454.9	119.9	29.1	22.7	22.7
15°	933.4	908.9	819.9	367.7	59.9	21.8	20.9	20.9
17.5°	938.0	908.0	796.3	276.9	31.8	20.0	20.0	20.0
20°	940.7	898.0	752.7	188.9	21.8	18.2	19.1	19.1
22.5°	943.4	873.5	695.5	119.9	17.3	17.3	18.2	18.2
25°	938.0	830.8	614.7	72.6	15.4	16.3	17.3	18.2
27.5°	898.9	766.4	516.7	44.5	13.6	15.4	17.3	18.2
30°	831.7	671.9	403.2	28.1	12.7	15.4	17.3	18.2
32.5°	744.6	563.9	287.8	17.3	12.7	15.4	17.3	18.2
35°	627.4	431.3	187.0	11.8	12.7	15.4	18.2	19.1
37.5°	495.8	301.5	100.8	9.1	12.7	15.4	18.2	19.1
40°	356.8	180.7	36.3	8.2	11.8	16.3	19.1	20.0
42.5°	208.8	67.2	6.4	7.3	11.8	16.3	19.1	20.0
45°	59.9	7.3	3.6	7.3	11.8	16.3	20.0	20.9
47.5°	4.5	2.7	3.6	7.3	11.8	16.3	20.0	21.8
50°	2.7	2.7	2.7	7.3	11.8	17.3	20.9	21.8
52.5°	3.6	3.6	3.6	7.3	11.8	17.3	20.9	21.8
55°	3.6	3.6	3.6	7.3	11.8	17.3	20.9	21.8
57.5°	3.6	3.6	3.6	7.3	11.8	16.3	20.9	21.8
60°	3.6	3.6	3.6	6.4	10.9	16.3	20.0	20.9
62.5°	3.6	3.6	3.6	6.4	10.9	15.4	20.0	20.0
65°	3.6	3.6	3.6	5.4	10.0	14.5	18.2	19.1
67.5°	3.6	3.6	3.6	5.4	9.1	13.6	17.3	18.2
70°	2.7	3.6	3.6	4.5	8.2	12.7	16.3	17.3
72.5°	2.7	2.7	3.6	4.5	7.3	10.9	14.5	15.4
75°	2.7	2.7	2.7	3.6	6.4	10.0	12.7	13.6
77.5°	2.7	2.7	2.7	3.6	5.4	8.2	11.8	11.8
80°	1.8	2.7	2.7	2.7	4.5	6.4	9.1	10.0
82.5°	1.8	1.8	1.8	2.7	3.6	5.4	7.3	7.3
85°	1.8	1.8	1.8	1.8	2.7	3.6	4.5	4.5
87.5°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)