

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: P1316960

Luminaire Tested: LDSQA3D20R609740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R609740D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

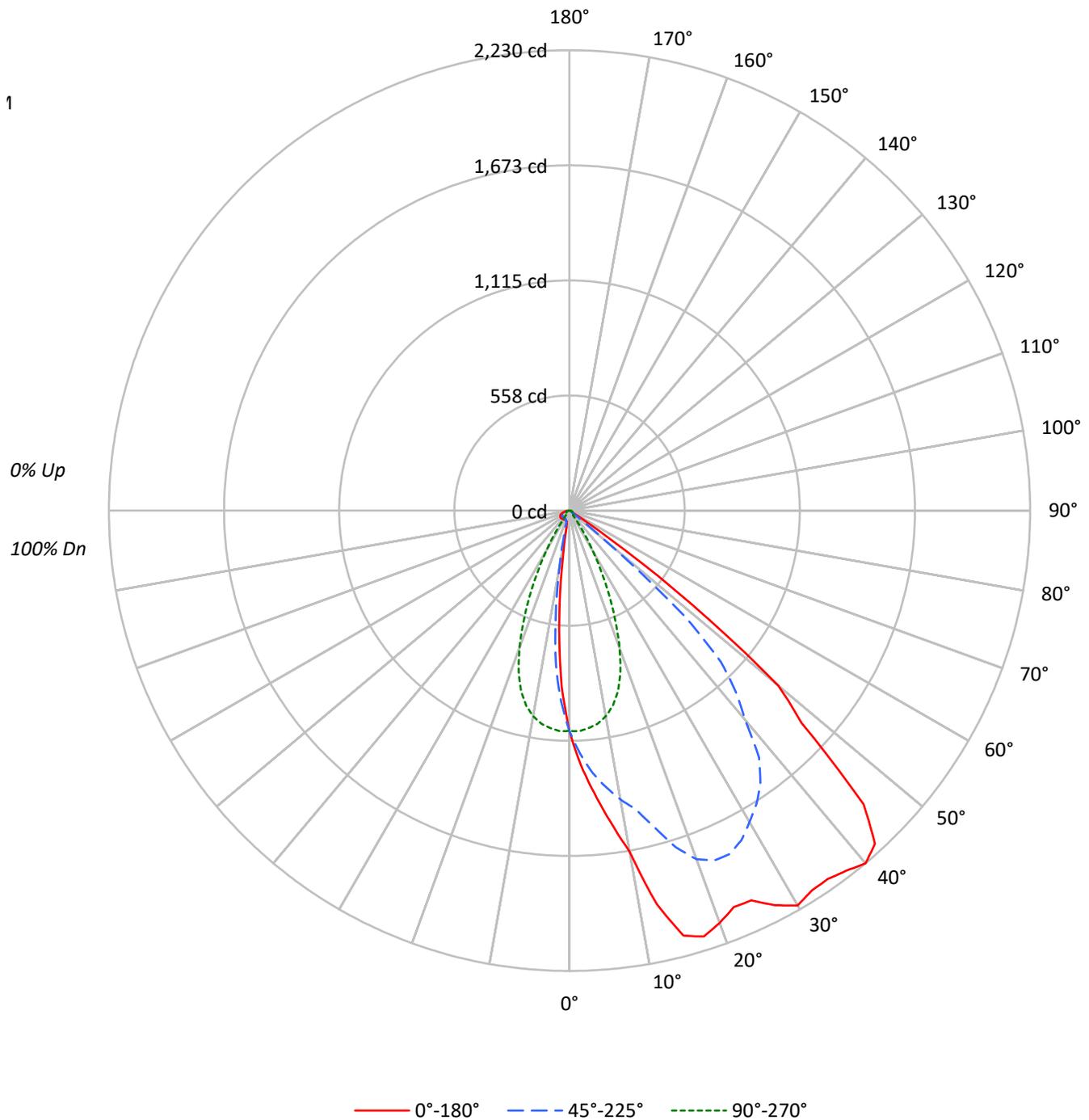
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1734.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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				
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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	183830	183830	183830	183830	183830
5°	237451	220475	182838	130196	99337
10°	293448	248504	176926	49246	14602
15°	380042	282852	161413	10805	9628
20°	389460	329438	129924	8999	9310
25°	395712	348737	87108	8703	9330
30°	439195	346404	44924	8790	9764
35°	458124	338684	12383	9293	10680
40°	501283	297011	5890	9937	11781
45°	490432	252401	5992	10765	13152
50°	353535	62294	6591	11843	14468
55°	67829	3933	6876	12791	16214
60°	3376	3961	6751	13537	17498
65°	3342	3994	6683	14018	18664
70°	3273	4129	6596	13999	18984
75°	3261	4325	6521	14173	19630
80°	1587	4860	6447	14579	19439
85°	3162	3162	6521	12844	19365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 490432 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	5.4
10°-20°	256.3	14.8
20°-30°	394.5	22.7
30°-40°	462.8	26.7
40°-50°	371.1	21.4
50°-60°	115.2	6.6
60°-70°	21.8	1.3
70°-80°	14.5	0.8
80°-90°	5.0	0.3
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°	743.5	42.9
0°-40°	1206.3	69.6
0°-60°	1692.7	97.6
0°-90°	1734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1734.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1067	1067	1067	1067	1067	
5°	1374	1275	1058	753	575	140
15°	2132	1586	905	61	54	584
25°	2082	1835	458	46	49	983
35°	2179	1611	59	44	51	1379
45°	2014	1036	25	44	54	1441
55°	226	13	23	43	54	357
65°	8	10	16	34	46	8
75°	5	6	10	21	30	5
85°	2	2	3	6	10	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°	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4
2.5°	1231.1	1218.0	1218.0	1213.1	1208.2	1209.8	1196.7	1201.6	1188.5	1178.7	1170.5
5°	1373.5	1357.2	1355.5	1347.3	1339.2	1332.6	1316.2	1306.4	1286.8	1275.3	1250.8
7.5°	1520.9	1507.8	1499.6	1489.8	1475.0	1458.7	1430.8	1412.8	1381.7	1350.6	1319.5
10°	1678.0	1666.6	1648.6	1637.1	1596.2	1570.0	1532.3	1507.8	1461.9	1421.0	1373.5
12.5°	1953.1	1946.5	1912.1	1889.2	1830.3	1777.9	1696.0	1630.6	1548.7	1481.6	1417.7
15°	2131.5	2123.3	2105.3	2084.0	2046.4	1987.5	1913.8	1822.1	1707.5	1586.4	1478.3
17.5°	2162.6	2164.3	2152.8	2147.9	2123.3	2085.7	2026.7	1958.0	1843.4	1709.1	1561.8
20°	2125.0	2138.1	2134.8	2144.6	2149.5	2134.8	2095.5	2028.4	1928.5	1797.5	1632.2
22.5°	2079.1	2090.6	2087.3	2105.3	2133.2	2147.9	2134.8	2080.8	1979.3	1833.6	1671.5
25°	2082.4	2090.6	2066.0	2077.5	2113.5	2149.5	2151.2	2103.7	1994.0	1835.2	1668.2
27.5°	2154.4	2129.9	2074.2	2069.3	2113.5	2159.4	2162.6	2103.7	1972.7	1800.8	1635.5
30°	2208.5	2190.5	2128.2	2120.1	2162.6	2193.7	2177.4	2085.7	1922.0	1741.9	1588.0
32.5°	2182.3	2185.5	2159.4	2185.5	2241.2	2254.3	2185.5	2043.1	1851.6	1684.6	1532.3
35°	2179.0	2192.1	2206.8	2247.8	2285.4	2254.3	2144.6	1962.9	1776.3	1610.9	1445.6
37.5°	2198.6	2219.9	2241.2	2277.2	2277.2	2197.0	2036.6	1861.4	1686.2	1506.1	1265.5
40°	2229.7	2242.8	2249.4	2246.1	2201.9	2084.0	1913.8	1738.6	1571.6	1321.1	1146.0
42.5°	2188.8	2187.2	2180.6	2152.8	2070.9	1917.1	1758.3	1615.8	1352.3	1191.8	992.1
45°	2013.6	2013.6	1995.6	1951.4	1876.1	1748.4	1607.6	1399.7	1232.7	1036.3	736.7
47.5°	1524.2	1512.7	1532.3	1558.5	1558.5	1547.1	1419.4	1239.3	1069.0	748.2	235.7
50°	1319.5	1301.5	1276.9	1281.9	1278.6	1291.7	1209.8	1073.9	790.7	232.5	16.4
52.5°	746.5	779.3	859.5	972.4	1023.2	1041.2	990.5	816.9	266.8	14.7	13.1
55°	225.9	232.5	263.6	324.1	440.4	563.2	571.4	265.2	18.0	13.1	13.1
57.5°	9.8	9.8	13.1	19.6	45.8	68.8	73.7	16.4	11.5	13.1	13.1
60°	9.8	9.8	9.8	9.8	9.8	9.8	11.5	11.5	11.5	11.5	13.1
62.5°	8.2	8.2	9.8	9.8	9.8	9.8	9.8	9.8	11.5	11.5	11.5
65°	8.2	8.2	8.2	8.2	8.2	8.2	9.8	9.8	9.8	9.8	11.5
67.5°	6.5	6.5	6.5	8.2	8.2	8.2	8.2	8.2	9.8	9.8	9.8
70°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.2	8.2	8.2	8.2
72.5°	4.9	4.9	4.9	4.9	4.9	6.5	6.5	6.5	6.5	6.5	8.2
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	6.5	6.5	6.5
77.5°	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9	4.9	4.9	4.9
80°	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4	1067.4
2.5°	1159.1	1146.0	1131.2	1069.0	1008.5	926.6	870.9	854.6
5°	1229.5	1208.2	1175.4	1057.6	915.1	753.1	622.1	574.6
7.5°	1288.4	1255.7	1209.8	1041.2	803.8	510.8	329.1	278.3
10°	1331.0	1290.0	1231.1	1011.7	656.5	281.6	111.3	83.5
12.5°	1367.0	1313.0	1242.6	967.5	478.0	114.6	57.3	57.3
15°	1391.5	1326.1	1247.5	905.3	309.4	60.6	54.0	54.0
17.5°	1425.9	1340.8	1247.5	818.6	168.6	52.4	52.4	52.4
20°	1481.6	1355.5	1229.5	708.9	93.3	49.1	50.8	50.8
22.5°	1511.1	1376.8	1206.6	581.2	58.9	47.5	49.1	49.1
25°	1517.6	1373.5	1157.4	458.4	47.5	45.8	47.5	49.1
27.5°	1494.7	1350.6	1092.0	334.0	42.6	44.2	47.5	49.1
30°	1453.8	1295.0	987.2	225.9	39.3	44.2	47.5	49.1
32.5°	1376.8	1160.7	864.4	135.9	37.7	44.2	47.5	50.8
35°	1204.9	1019.9	723.6	58.9	36.0	44.2	49.1	50.8
37.5°	1080.5	879.1	559.9	29.5	36.0	44.2	49.1	52.4
40°	943.0	707.2	258.7	26.2	36.0	44.2	49.1	52.4
42.5°	718.7	327.4	31.1	26.2	34.4	44.2	50.8	52.4
45°	261.9	34.4	16.4	24.6	34.4	44.2	50.8	54.0
47.5°	19.6	13.1	14.7	24.6	34.4	44.2	50.8	54.0
50°	13.1	13.1	14.7	24.6	34.4	44.2	50.8	54.0
52.5°	13.1	14.7	14.7	22.9	32.7	44.2	50.8	54.0
55°	13.1	14.7	14.7	22.9	32.7	42.6	50.8	54.0
57.5°	13.1	13.1	14.7	21.3	31.1	40.9	50.8	52.4
60°	13.1	13.1	14.7	19.6	29.5	39.3	47.5	50.8
62.5°	13.1	13.1	13.1	18.0	27.8	37.7	45.8	49.1
65°	11.5	11.5	13.1	16.4	24.6	34.4	42.6	45.8
67.5°	9.8	11.5	11.5	14.7	22.9	31.1	39.3	42.6
70°	9.8	9.8	9.8	13.1	19.6	27.8	36.0	37.7
72.5°	8.2	8.2	9.8	11.5	18.0	24.6	32.7	34.4
75°	6.5	8.2	8.2	9.8	14.7	21.3	27.8	29.5
77.5°	6.5	6.5	6.5	8.2	13.1	18.0	22.9	24.6
80°	4.9	4.9	4.9	6.5	9.8	14.7	18.0	19.6
82.5°	3.3	4.9	4.9	4.9	8.2	9.8	13.1	14.7
85°	3.3	3.3	3.3	3.3	4.9	6.5	8.2	9.8
87.5°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)