

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: P1308331

Luminaire Tested: LDSQA3D17R509027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308331
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: LDSQA3D17R509027DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

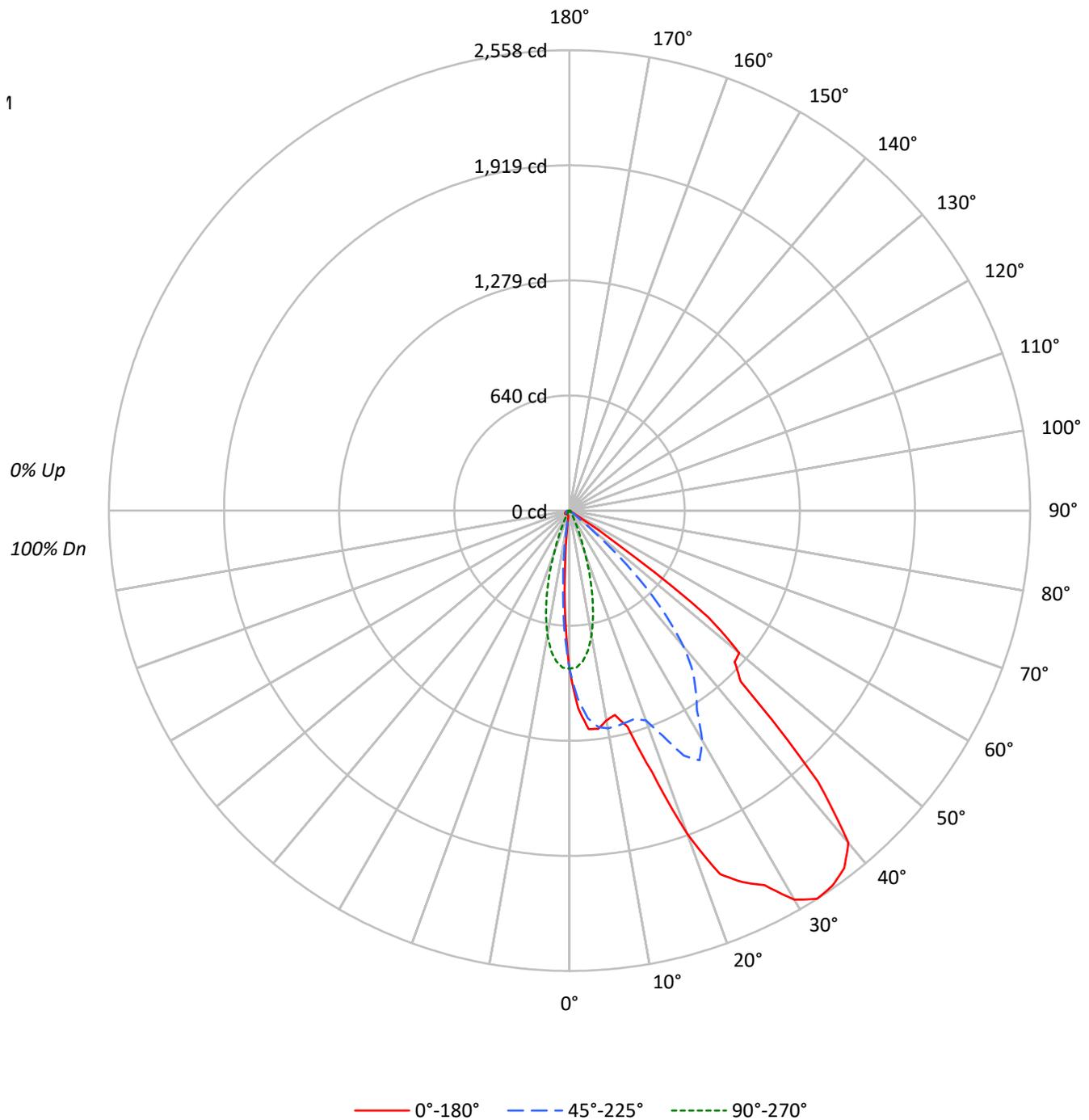
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1364.9 lumens
Efficiency: N/A
Efficacy: 64.4 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): 21.2
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	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	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	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	151143	151143	151143	151143	151143
5°	210741	199936	145271	69826	45312
10°	206865	214857	122783	14725	6313
15°	221838	217131	86813	5153	4921
20°	350313	227372	45819	4399	4619
25°	432900	285553	18281	4105	4561
30°	496309	292849	7418	4057	4773
35°	535074	257046	3280	4289	5298
40°	541616	221358	2428	4856	5935
45°	327344	143481	2338	5261	6722
50°	329823	24810	2572	6109	7743
55°	97465	1441	2883	6846	8678
60°	1653	1653	2893	7440	9507
65°	1467	1467	2934	7824	10269
70°	1813	1813	3021	8460	11481
75°	1597	1597	3194	8784	11978
80°	1190	2380	3570	8331	13092
85°	2371	4742	4742	9485	11856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 373913 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	5.2
10°-20°	176.2	12.9
20°-30°	330.1	24.2
30°-40°	394.7	28.9
40°-50°	282.8	20.7
50°-60°	87.2	6.4
60°-70°	11.4	0.8
70°-80°	8.3	0.6
80°-90°	3.4	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°	577.3	42.3
0°-40°	971.9	71.2
0°-60°	1341.9	98.3
0°-90°	1364.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	878	878	878	878	878	
5°	1219	1156	840	404	262	113
15°	1244	1218	487	29	28	398
25°	2278	1503	96	22	24	1050
35°	2545	1223	16	20	25	1579
45°	1344	589	10	22	28	1234
55°	325	5	10	23	29	418
65°	4	4	7	19	25	4
75°	2	2	5	13	18	2
85°	1	2	2	5	6	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°	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6
2.5°	1097.6	1100.0	1103.6	1094.0	1088.0	1083.1	1074.7	1072.3	1051.9	1043.5	1035.1
5°	1219.0	1216.6	1219.0	1215.4	1213.0	1205.8	1198.6	1186.5	1173.3	1156.5	1137.2
7.5°	1222.6	1220.2	1225.0	1225.0	1229.8	1229.8	1229.8	1231.0	1223.8	1211.8	1194.9
10°	1182.9	1182.9	1187.7	1185.3	1193.7	1197.4	1205.8	1220.2	1227.4	1228.6	1223.8
12.5°	1162.5	1162.5	1163.7	1158.9	1161.3	1164.9	1174.5	1191.3	1208.2	1225.0	1234.6
15°	1244.2	1246.6	1229.8	1205.8	1187.7	1168.5	1162.5	1173.3	1191.3	1217.8	1239.4
17.5°	1521.9	1525.5	1507.5	1449.8	1394.5	1315.2	1244.2	1209.4	1190.1	1211.8	1240.6
20°	1911.4	1898.2	1867.0	1805.6	1725.1	1602.5	1491.9	1380.1	1273.1	1240.6	1250.2
22.5°	2186.7	2181.9	2156.7	2088.2	2018.4	1904.2	1763.6	1607.3	1452.2	1353.6	1301.9
25°	2278.1	2274.5	2251.7	2210.8	2172.3	2085.8	1959.5	1802.0	1639.7	1502.7	1372.9
27.5°	2346.6	2341.8	2305.7	2260.1	2220.4	2132.6	2017.2	1898.2	1749.1	1564.0	1364.5
30°	2495.7	2482.5	2432.0	2350.2	2274.5	2153.1	2025.6	1877.8	1675.8	1472.6	1277.9
32.5°	2558.2	2551.0	2507.7	2441.6	2358.6	2200.0	2006.4	1758.8	1493.1	1317.6	1175.7
35°	2545.0	2534.2	2489.7	2413.9	2313.0	2160.3	1901.8	1561.6	1345.2	1222.6	1062.7
37.5°	2505.3	2489.7	2436.8	2347.8	2225.2	2025.6	1687.8	1401.7	1262.3	1124.0	908.8
40°	2409.1	2383.9	2322.6	2230.0	2107.4	1845.3	1493.1	1305.5	1175.7	984.6	736.9
42.5°	2041.3	2028.0	2058.1	2042.5	1934.3	1625.3	1354.8	1217.8	1038.7	795.8	533.8
45°	1344.0	1366.9	1421.0	1513.5	1535.2	1398.1	1241.8	1073.5	854.7	589.1	307.8
47.5°	1244.2	1239.4	1252.7	1270.7	1274.3	1216.6	1074.7	887.2	634.7	336.6	85.4
50°	1231.0	1223.8	1213.0	1191.3	1145.7	1033.9	872.8	646.8	366.7	92.6	6.0
52.5°	972.5	965.3	965.3	934.1	875.2	767.0	602.3	355.8	102.2	6.0	4.8
55°	324.6	346.2	342.6	341.4	367.9	339.0	259.7	91.4	8.4	4.8	4.8
57.5°	6.0	6.0	6.0	10.8	16.8	24.0	14.4	7.2	4.8	4.8	4.8
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8
67.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
77.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6
2.5°	1015.8	999.0	966.5	874.0	771.8	655.2	575.8	566.2
5°	1107.2	1081.9	1029.1	840.3	607.1	403.9	300.5	262.1
7.5°	1167.3	1133.6	1068.7	785.0	442.4	212.8	114.2	91.4
10°	1203.4	1172.1	1089.2	702.1	281.3	84.2	38.5	36.1
12.5°	1222.6	1192.5	1096.4	602.3	158.7	38.5	30.1	30.1
15°	1235.8	1203.4	1085.6	486.9	79.3	28.9	27.6	27.6
17.5°	1241.8	1202.2	1054.3	366.7	42.1	26.4	26.4	26.4
20°	1245.4	1188.9	996.6	250.0	28.9	24.0	25.2	25.2
22.5°	1249.0	1156.5	920.9	158.7	22.8	22.8	24.0	24.0
25°	1241.8	1100.0	813.9	96.2	20.4	21.6	22.8	24.0
27.5°	1190.1	1014.6	684.0	58.9	18.0	20.4	22.8	24.0
30°	1101.2	889.6	533.8	37.3	16.8	20.4	22.8	24.0
32.5°	985.8	746.5	381.1	22.8	16.8	20.4	22.8	24.0
35°	830.7	571.0	247.6	15.6	16.8	20.4	24.0	25.2
37.5°	656.4	399.1	133.4	12.0	16.8	20.4	24.0	25.2
40°	472.4	239.2	48.1	10.8	15.6	21.6	25.2	26.4
42.5°	276.5	89.0	8.4	9.6	15.6	21.6	25.2	26.4
45°	79.3	9.6	4.8	9.6	15.6	21.6	26.4	27.6
47.5°	6.0	3.6	4.8	9.6	15.6	21.6	26.4	28.9
50°	3.6	3.6	3.6	9.6	15.6	22.8	27.6	28.9
52.5°	4.8	4.8	4.8	9.6	15.6	22.8	27.6	28.9
55°	4.8	4.8	4.8	9.6	15.6	22.8	27.6	28.9
57.5°	4.8	4.8	4.8	9.6	15.6	21.6	27.6	28.9
60°	4.8	4.8	4.8	8.4	14.4	21.6	26.4	27.6
62.5°	4.8	4.8	4.8	8.4	14.4	20.4	26.4	26.4
65°	4.8	4.8	4.8	7.2	13.2	19.2	24.0	25.2
67.5°	4.8	4.8	4.8	7.2	12.0	18.0	22.8	24.0
70°	3.6	4.8	4.8	6.0	10.8	16.8	21.6	22.8
72.5°	3.6	3.6	4.8	6.0	9.6	14.4	19.2	20.4
75°	3.6	3.6	3.6	4.8	8.4	13.2	16.8	18.0
77.5°	3.6	3.6	3.6	4.8	7.2	10.8	15.6	15.6
80°	2.4	3.6	3.6	3.6	6.0	8.4	12.0	13.2
82.5°	2.4	2.4	2.4	3.6	4.8	7.2	9.6	9.6
85°	2.4	2.4	2.4	2.4	3.6	4.8	6.0	6.0
87.5°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)