

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: P1307359

Luminaire Tested: LDSQA3D17R509024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307359
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: LDSQA3D17R509024DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

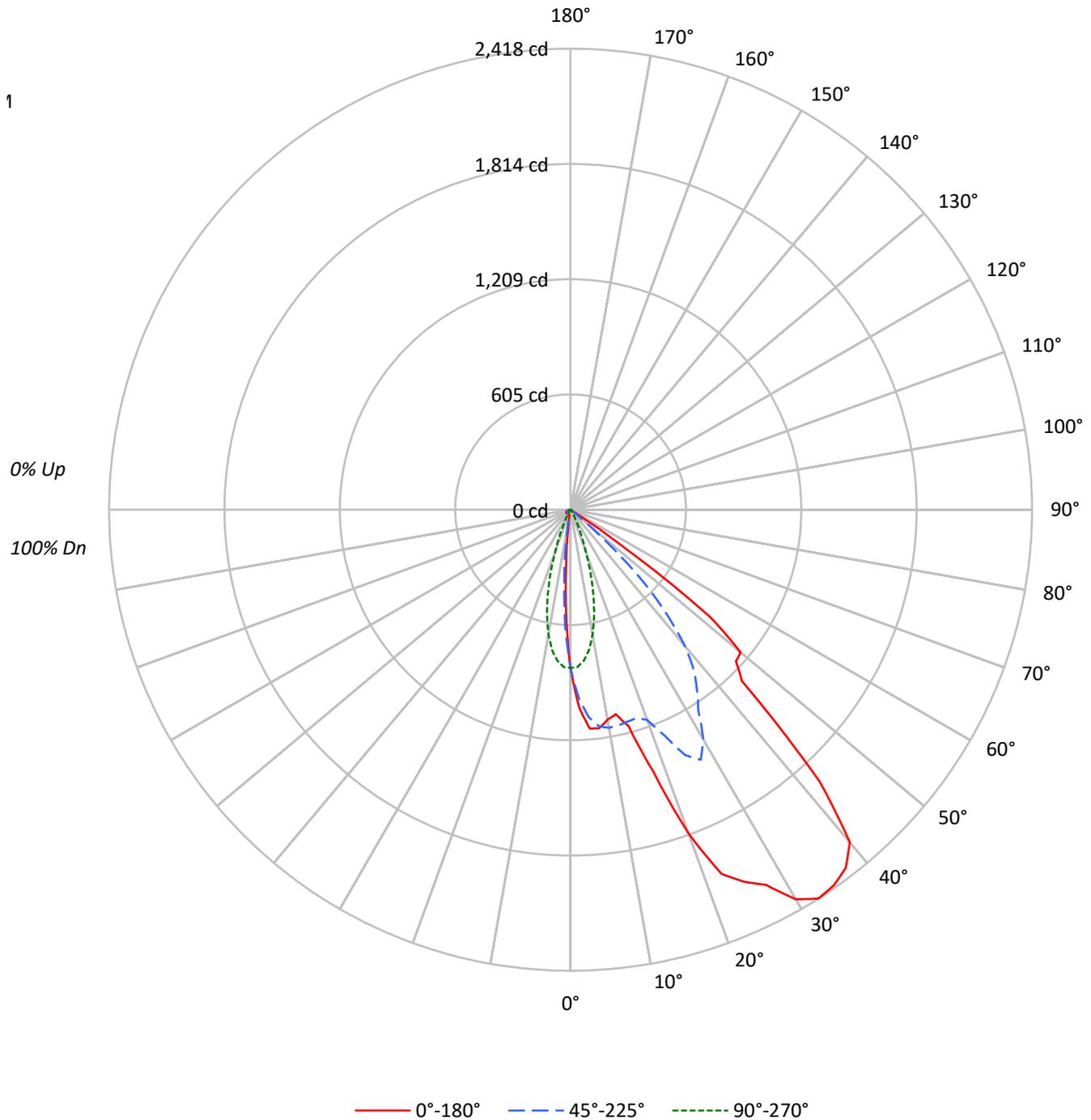
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1290.0 lumens
Efficiency: N/A
Efficacy: 60.8 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	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	142841	142841	142841	142841	142841
5°	199158	188941	137284	65988	42823
10°	195498	203053	116033	13903	5963
15°	209661	205203	82035	4868	4654
20°	331069	214891	43308	4160	4380
25°	409108	269857	17273	3877	4314
30°	469044	276761	7000	3838	4514
35°	505660	242917	3112	4058	5025
40°	511872	209196	2293	4586	5621
45°	309369	135590	2216	4969	6357
50°	311711	23444	2438	5787	7315
55°	92090	1351	2732	6486	8197
60°	1550	1550	2756	7027	8990
65°	1386	1386	2771	7417	9740
70°	1712	1712	2870	8006	10877
75°	1530	1530	2994	8318	11312
80°	1091	2281	3372	7934	12397
85°	2174	4545	4545	8892	11263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 353356 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	5.2
10°-20°	166.5	12.9
20°-30°	312.0	24.2
30°-40°	373.0	28.9
40°-50°	267.3	20.7
50°-60°	82.4	6.4
60°-70°	10.7	0.8
70°-80°	7.8	0.6
80°-90°	3.2	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°	545.6	42.3
0°-40°	918.5	71.2
0°-60°	1268.2	98.3
0°-90°	1290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	829	829	829	829	829	
5°	1152	1093	794	382	248	107
15°	1176	1151	460	27	26	377
25°	2153	1420	91	20	23	992
35°	2405	1155	15	19	24	1492
45°	1270	557	9	20	26	1167
55°	307	4	9	22	27	395
65°	3	3	7	18	24	4
75°	2	2	4	12	17	2
85°	1	2	2	4	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°	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4
2.5°	1037.3	1039.5	1042.9	1033.9	1028.2	1023.6	1015.7	1013.4	994.1	986.1	978.2
5°	1152.0	1149.7	1152.0	1148.6	1146.3	1139.5	1132.7	1121.3	1108.8	1092.9	1074.8
7.5°	1155.4	1153.2	1157.7	1157.7	1162.2	1162.2	1162.2	1163.4	1156.6	1145.2	1129.3
10°	1117.9	1117.9	1122.5	1120.2	1128.2	1131.6	1139.5	1153.2	1160.0	1161.1	1156.6
12.5°	1098.6	1098.6	1099.8	1095.2	1097.5	1100.9	1110.0	1125.9	1141.8	1157.7	1166.8
15°	1175.9	1178.1	1162.2	1139.5	1122.5	1104.3	1098.6	1108.8	1125.9	1150.9	1171.3
17.5°	1438.3	1441.7	1424.7	1370.1	1317.9	1242.9	1175.9	1142.9	1124.7	1145.2	1172.5
20°	1806.4	1793.9	1764.4	1706.4	1630.3	1514.4	1409.9	1304.3	1203.1	1172.5	1181.6
22.5°	2066.6	2062.0	2038.2	1973.4	1907.5	1799.6	1666.7	1519.0	1372.4	1279.3	1230.4
25°	2152.9	2149.5	2127.9	2089.3	2053.0	1971.2	1851.9	1703.0	1549.7	1420.1	1297.4
27.5°	2217.7	2213.1	2179.1	2135.9	2098.4	2015.5	1906.4	1793.9	1653.0	1478.1	1289.5
30°	2358.6	2346.1	2298.4	2221.1	2149.5	2034.8	1914.3	1774.6	1583.7	1391.7	1207.7
32.5°	2417.6	2410.8	2369.9	2307.4	2229.0	2079.1	1896.2	1662.1	1411.0	1245.2	1111.1
35°	2405.1	2394.9	2352.9	2281.3	2185.9	2041.6	1797.3	1475.8	1271.3	1155.4	1004.3
37.5°	2367.7	2352.9	2302.9	2218.8	2102.9	1914.3	1595.1	1324.7	1192.9	1062.3	858.9
40°	2276.8	2252.9	2195.0	2107.5	1991.6	1743.9	1411.0	1233.8	1111.1	930.5	696.4
42.5°	1929.1	1916.6	1945.0	1930.3	1828.0	1536.0	1280.4	1150.9	981.6	752.1	504.4
45°	1270.2	1291.8	1342.9	1430.4	1450.8	1321.3	1173.6	1014.5	807.8	556.7	290.8
47.5°	1175.9	1171.3	1183.8	1200.9	1204.3	1149.7	1015.7	838.4	599.9	318.1	80.7
50°	1163.4	1156.6	1146.3	1125.9	1082.7	977.1	824.8	611.2	346.5	87.5	5.7
52.5°	919.1	912.3	912.3	882.8	827.1	724.8	569.2	336.3	96.6	5.7	4.5
55°	306.7	327.2	323.8	322.7	347.6	320.4	245.4	86.3	8.0	4.5	4.5
57.5°	5.7	5.7	5.7	10.2	15.9	22.7	13.6	6.8	4.5	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5
67.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	3.4
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4
77.5°	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	2.3
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	829.4	829.4	829.4	829.4	829.4	829.4	829.4	829.4
2.5°	960.0	944.1	913.4	826.0	729.4	619.2	544.2	535.1
5°	1046.4	1022.5	972.5	794.1	573.7	381.7	284.0	247.7
7.5°	1103.2	1071.4	1010.0	741.9	418.1	201.1	107.9	86.3
10°	1137.2	1107.7	1029.3	663.5	265.8	79.5	36.4	34.1
12.5°	1155.4	1127.0	1036.1	569.2	150.0	36.4	28.4	28.4
15°	1167.9	1137.2	1025.9	460.1	75.0	27.3	26.1	26.1
17.5°	1173.6	1136.1	996.4	346.5	39.8	25.0	25.0	25.0
20°	1177.0	1123.6	941.8	236.3	27.3	22.7	23.9	23.9
22.5°	1180.4	1092.9	870.3	150.0	21.6	21.6	22.7	22.7
25°	1173.6	1039.5	769.1	90.9	19.3	20.4	21.6	22.7
27.5°	1124.7	958.9	646.4	55.7	17.0	19.3	21.6	22.7
30°	1040.7	840.7	504.4	35.2	15.9	19.3	21.6	22.7
32.5°	931.6	705.5	360.1	21.6	15.9	19.3	21.6	22.7
35°	785.1	539.7	234.0	14.8	15.9	19.3	22.7	23.9
37.5°	620.3	377.2	126.1	11.4	15.9	19.3	22.7	23.9
40°	446.5	226.1	45.4	10.2	14.8	20.4	23.9	25.0
42.5°	261.3	84.1	8.0	9.1	14.8	20.4	23.9	25.0
45°	75.0	9.1	4.5	9.1	14.8	20.4	25.0	26.1
47.5°	5.7	3.4	4.5	9.1	14.8	20.4	25.0	27.3
50°	3.4	3.4	3.4	9.1	14.8	21.6	26.1	27.3
52.5°	4.5	4.5	4.5	9.1	14.8	21.6	26.1	27.3
55°	4.5	4.5	4.5	9.1	14.8	21.6	26.1	27.3
57.5°	4.5	4.5	4.5	9.1	14.8	20.4	26.1	27.3
60°	4.5	4.5	4.5	8.0	13.6	20.4	25.0	26.1
62.5°	4.5	4.5	4.5	8.0	13.6	19.3	25.0	25.0
65°	4.5	4.5	4.5	6.8	12.5	18.2	22.7	23.9
67.5°	4.5	4.5	4.5	6.8	11.4	17.0	21.6	22.7
70°	3.4	4.5	4.5	5.7	10.2	15.9	20.4	21.6
72.5°	3.4	3.4	4.5	5.7	9.1	13.6	18.2	19.3
75°	3.4	3.4	3.4	4.5	8.0	12.5	15.9	17.0
77.5°	3.4	3.4	3.4	4.5	6.8	10.2	14.8	14.8
80°	2.3	3.4	3.4	3.4	5.7	8.0	11.4	12.5
82.5°	2.3	2.3	2.3	3.4	4.5	6.8	9.1	9.1
85°	2.3	2.3	2.3	2.3	3.4	4.5	5.7	5.7
87.5°	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)