

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: P1309124

Luminaire Tested: LDSQA3D09R509030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309124
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: LDSQA3D09R509030DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

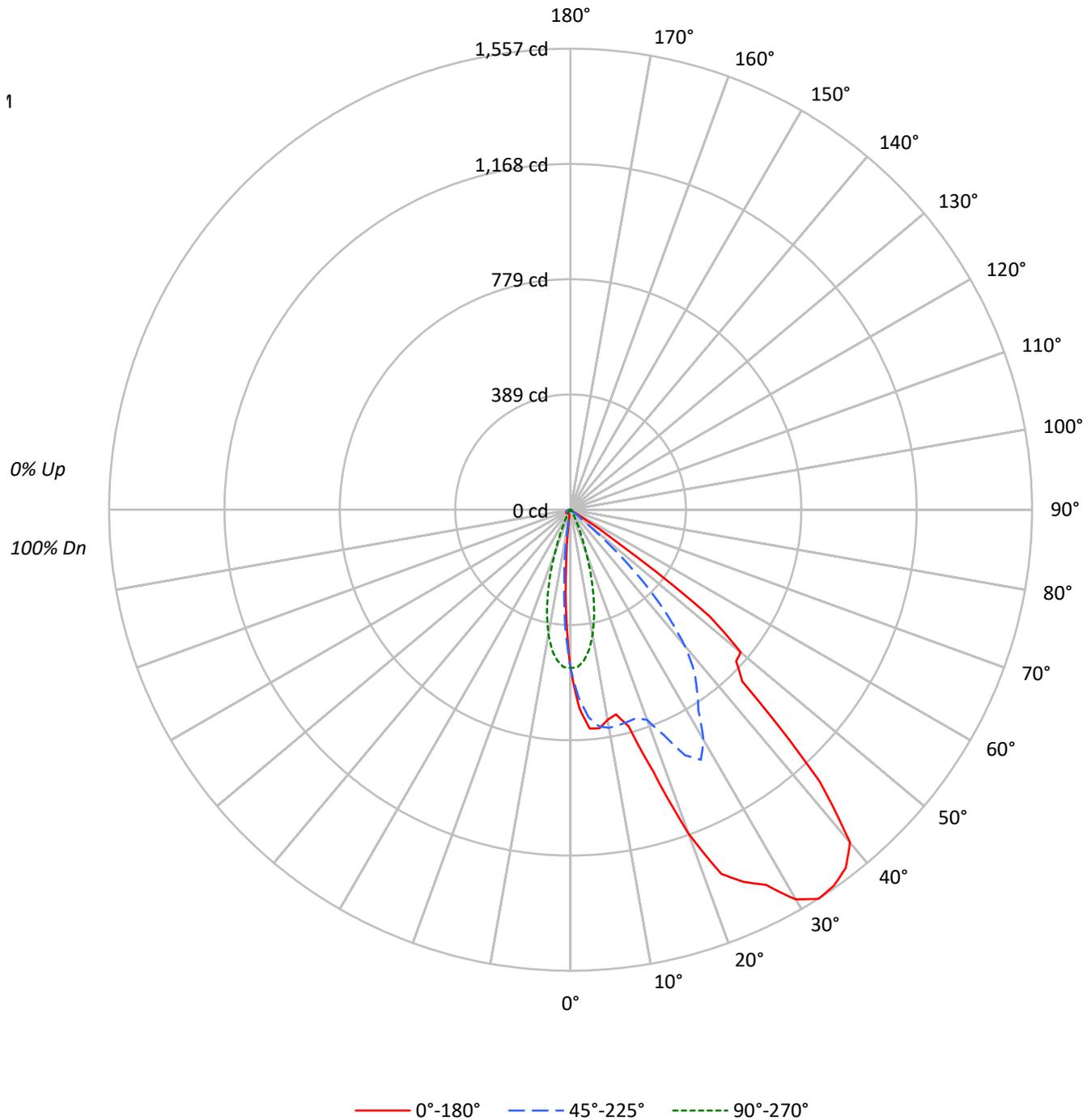
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 831.0 lumens
Efficiency: N/A
Efficacy: 74.9 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): 11.1
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	92	95	94	92	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	50	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	42	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°	92019	92019	92019	92019	92019
5°	128295	121725	88446	42511	27574
10°	125948	130810	74743	8954	3847
15°	135061	132190	52848	3138	2995
20°	213278	138428	27895	2676	2822
25°	263548	173836	11117	2508	2774
30°	302156	178283	4514	2466	2903
35°	325754	156485	1997	2607	3238
40°	329745	134758	1484	2968	3620
45°	199280	87340	1437	3215	4092
50°	200787	15111	1581	3724	4716
55°	59332	871	1772	4174	5285
60°	999	999	1757	4547	5787
65°	897	897	1793	4768	6276
70°	1108	1108	1863	5136	6999
75°	998	998	1930	5390	7320
80°	694	1488	2182	5058	8034
85°	1383	2964	2964	5730	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 227631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	5.2
10°-20°	107.3	12.9
20°-30°	201.0	24.2
30°-40°	240.3	28.9
40°-50°	172.2	20.7
50°-60°	53.1	6.4
60°-70°	6.9	0.8
70°-80°	5.0	0.6
80°-90°	2.1	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°	351.4	42.3
0°-40°	591.7	71.2
0°-60°	817.0	98.3
0°-90°	831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	831.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	534	534	534	534	534	
5°	742	704	512	246	160	69
15°	758	741	296	18	17	243
25°	1387	915	58	13	15	639
35°	1549	744	10	12	15	961
45°	818	359	6	13	17	752
55°	198	3	6	14	18	254
65°	2	2	4	12	15	2
75°	2	2	3	8	11	1
85°	1	2	2	3	4	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°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	668.2	669.7	671.9	666.0	662.3	659.4	654.3	652.8	640.4	635.3	630.1
5°	742.1	740.6	742.1	739.9	738.5	734.1	729.7	722.4	714.3	704.1	692.3
7.5°	744.3	742.8	745.8	745.8	748.7	748.7	748.7	749.4	745.0	737.7	727.5
10°	720.2	720.2	723.1	721.6	726.7	728.9	734.1	742.8	747.2	748.0	745.0
12.5°	707.7	707.7	708.4	705.5	707.0	709.2	715.0	725.3	735.5	745.8	751.6
15°	757.5	758.9	748.7	734.1	723.1	711.4	707.7	714.3	725.3	741.4	754.6
17.5°	926.5	928.7	917.8	882.6	849.0	800.7	757.5	736.3	724.5	737.7	755.3
20°	1163.7	1155.6	1136.6	1099.3	1050.2	975.6	908.2	840.2	775.0	755.3	761.1
22.5°	1331.3	1328.3	1313.0	1271.3	1228.8	1159.3	1073.6	978.5	884.1	824.1	792.6
25°	1386.9	1384.7	1370.8	1345.9	1322.5	1269.8	1192.9	1097.1	998.3	914.8	835.8
27.5°	1428.6	1425.7	1403.7	1375.9	1351.8	1298.3	1228.1	1155.6	1064.9	952.2	830.7
30°	1519.4	1511.3	1480.6	1430.8	1384.7	1310.8	1233.2	1143.2	1020.2	896.5	778.0
32.5°	1557.4	1553.0	1526.7	1486.4	1435.9	1339.3	1221.5	1070.7	909.0	802.1	715.8
35°	1549.4	1542.8	1515.7	1469.6	1408.1	1315.2	1157.8	950.7	819.0	744.3	647.0
37.5°	1525.2	1515.7	1483.5	1429.3	1354.7	1233.2	1027.5	853.4	768.5	684.3	553.3
40°	1466.7	1451.3	1414.0	1357.6	1283.0	1123.4	909.0	794.8	715.8	599.4	448.6
42.5°	1242.7	1234.7	1253.0	1243.4	1177.6	989.5	824.8	741.4	632.3	484.5	324.9
45°	818.2	832.1	865.1	921.4	934.6	851.2	756.0	653.6	520.4	358.6	187.4
47.5°	757.5	754.6	762.6	773.6	775.8	740.6	654.3	540.1	386.4	204.9	52.0
50°	749.4	745.0	738.5	725.3	697.5	629.4	531.3	393.7	223.2	56.4	3.7
52.5°	592.1	587.7	587.7	568.7	532.8	466.9	366.7	216.6	62.2	3.7	2.9
55°	197.6	210.8	208.6	207.8	224.0	206.4	158.1	55.6	5.1	2.9	2.9
57.5°	3.7	3.7	3.7	6.6	10.2	14.6	8.8	4.4	2.9	2.9	2.9
60°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
62.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.2
77.5°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
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°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	618.4	608.2	588.4	532.1	469.9	398.9	350.6	344.7
5°	674.0	658.7	626.5	511.6	369.6	245.9	183.0	159.5
7.5°	710.6	690.1	650.6	477.9	269.3	129.5	69.5	55.6
10°	732.6	713.6	663.1	427.4	171.3	51.2	23.4	22.0
12.5°	744.3	726.0	667.5	366.7	96.6	23.4	18.3	18.3
15°	752.4	732.6	660.9	296.4	48.3	17.6	16.8	16.8
17.5°	756.0	731.9	641.8	223.2	25.6	16.1	16.1	16.1
20°	758.2	723.8	606.7	152.2	17.6	14.6	15.4	15.4
22.5°	760.4	704.1	560.6	96.6	13.9	13.9	14.6	14.6
25°	756.0	669.7	495.5	58.5	12.4	13.2	13.9	14.6
27.5°	724.5	617.7	416.4	35.9	11.0	12.4	13.9	14.6
30°	670.4	541.6	324.9	22.7	10.2	12.4	13.9	14.6
32.5°	600.1	454.5	232.0	13.9	10.2	12.4	13.9	14.6
35°	505.7	347.6	150.8	9.5	10.2	12.4	14.6	15.4
37.5°	399.6	243.0	81.2	7.3	10.2	12.4	14.6	15.4
40°	287.6	145.6	29.3	6.6	9.5	13.2	15.4	16.1
42.5°	168.3	54.2	5.1	5.9	9.5	13.2	15.4	16.1
45°	48.3	5.9	2.9	5.9	9.5	13.2	16.1	16.8
47.5°	3.7	2.2	2.9	5.9	9.5	13.2	16.1	17.6
50°	2.2	2.2	2.2	5.9	9.5	13.9	16.8	17.6
52.5°	2.9	2.9	2.9	5.9	9.5	13.9	16.8	17.6
55°	2.9	2.9	2.9	5.9	9.5	13.9	16.8	17.6
57.5°	2.9	2.9	2.9	5.9	9.5	13.2	16.8	17.6
60°	2.9	2.9	2.9	5.1	8.8	13.2	16.1	16.8
62.5°	2.9	2.9	2.9	5.1	8.8	12.4	16.1	16.1
65°	2.9	2.9	2.9	4.4	8.1	11.7	14.6	15.4
67.5°	2.9	2.9	2.9	4.4	7.3	11.0	13.9	14.6
70°	2.2	2.9	2.9	3.7	6.6	10.2	13.2	13.9
72.5°	2.2	2.2	2.9	3.7	5.9	8.8	11.7	12.4
75°	2.2	2.2	2.2	2.9	5.1	8.1	10.2	11.0
77.5°	2.2	2.2	2.2	2.9	4.4	6.6	9.5	9.5
80°	1.5	2.2	2.2	2.2	3.7	5.1	7.3	8.1
82.5°	1.5	1.5	1.5	2.2	2.9	4.4	5.9	5.9
85°	1.5	1.5	1.5	1.5	2.2	2.9	3.7	3.7
87.5°	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)