

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: P1314527

Luminaire Tested: LDSQA3D09R509730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314527  
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: LDSQA3D09R509730DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

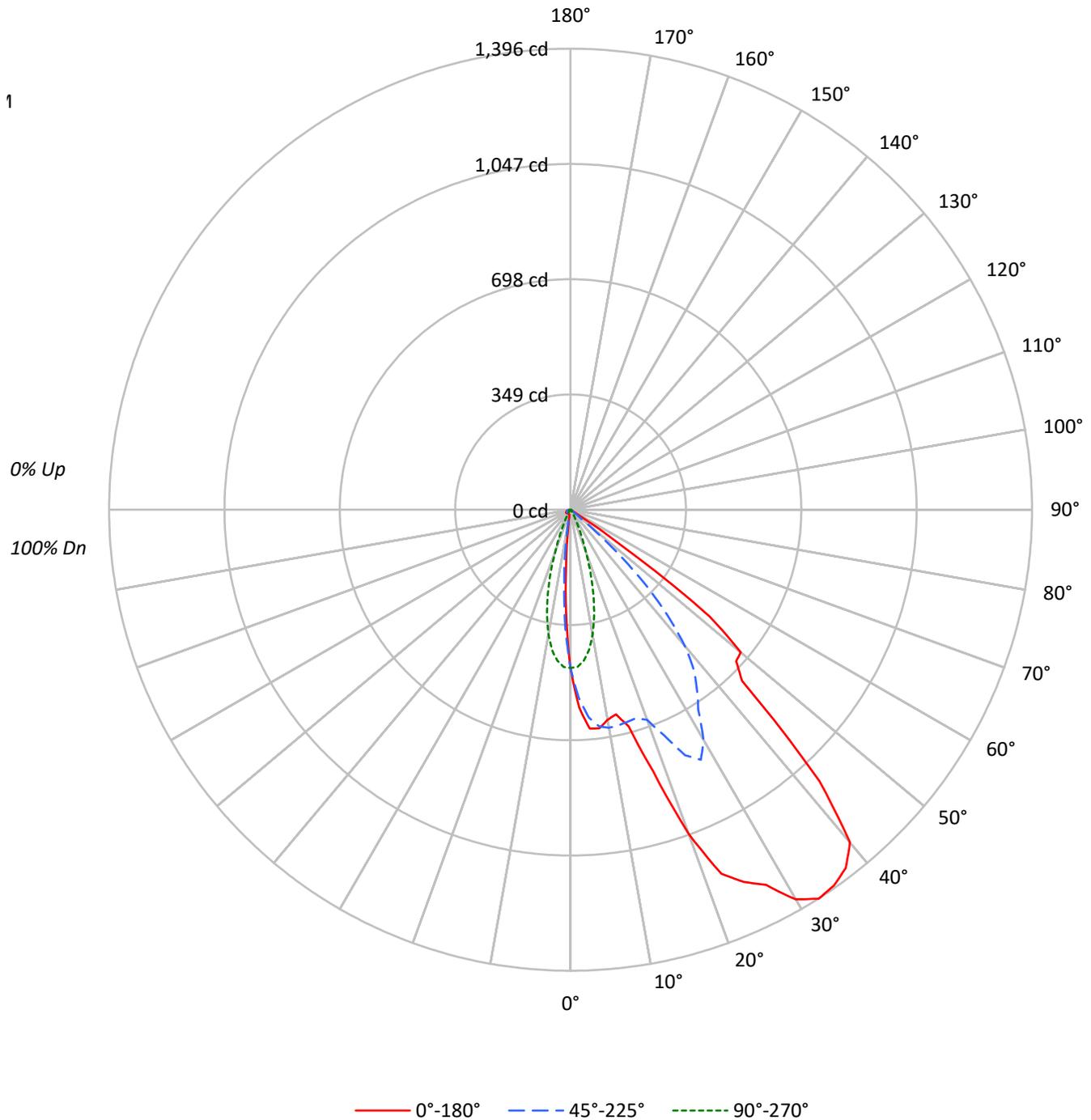
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 745.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 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	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°	82495	82495	82495	82495	82495
5°	115017	109122	79283	38120	24722
10°	112902	117274	67014	8027	3445
15°	121082	118515	47374	2799	2692
20°	191193	124096	25017	2401	2529
25°	236279	155860	9976	2242	2489
30°	270875	159848	4037	2227	2605
35°	292030	140297	1787	2355	2901
40°	295617	120819	1326	2653	3237
45°	178651	78304	1267	2874	3678
50°	180023	13531	1393	3349	4207
55°	53206	781	1561	3753	4714
60°	896	896	1584	4064	5201
65°	815	815	1589	4279	5624
70°	1007	1007	1662	4633	6294
75°	865	865	1730	4791	6521
80°	694	1289	1984	4562	7141
85°	1383	2569	2569	5138	6521

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 204079 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	5.2
10°-20°	96.2	12.9
20°-30°	180.2	24.2
30°-40°	215.4	28.9
40°-50°	154.4	20.7
50°-60°	47.6	6.4
60°-70°	6.2	0.8
70°-80°	4.5	0.6
80°-90°	1.8	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°	315.1	42.3
0°-40°	530.5	71.2
0°-60°	732.4	98.3
0°-90°	745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	745.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	479	479	479	479	479	
5°	665	631	459	220	143	62
15°	679	665	266	16	15	217
25°	1243	820	52	12	13	573
35°	1389	667	8	11	14	862
45°	734	322	5	12	15	674
55°	177	3	5	12	16	228
65°	2	2	4	10	14	2
75°	1	1	3	7	10	1
85°	1	1	1	3	3	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°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	599.0	600.4	602.3	597.1	593.8	591.2	586.6	585.3	574.1	569.5	564.9
5°	665.3	664.0	665.3	663.3	662.0	658.1	654.2	647.6	640.4	631.2	620.7
7.5°	667.3	666.0	668.6	668.6	671.2	671.2	671.2	671.9	667.9	661.4	652.2
10°	645.6	645.6	648.3	646.9	651.5	653.5	658.1	666.0	669.9	670.6	667.9
12.5°	634.5	634.5	635.1	632.5	633.8	635.8	641.0	650.2	659.4	668.6	673.8
15°	679.1	680.4	671.2	658.1	648.3	637.8	634.5	640.4	650.2	664.7	676.5
17.5°	830.7	832.6	822.8	791.3	761.1	717.8	679.1	660.1	649.6	661.4	677.1
20°	1043.2	1036.0	1019.0	985.5	941.5	874.6	814.3	753.2	694.8	677.1	682.4
22.5°	1193.5	1190.9	1177.1	1139.7	1101.6	1039.3	962.5	877.2	792.6	738.8	710.6
25°	1243.4	1241.4	1228.9	1206.6	1185.6	1138.4	1069.5	983.5	895.0	820.2	749.3
27.5°	1280.8	1278.1	1258.4	1233.5	1211.9	1164.0	1101.0	1036.0	954.7	853.6	744.7
30°	1362.1	1354.9	1327.3	1282.7	1241.4	1175.1	1105.6	1024.9	914.6	803.8	697.5
32.5°	1396.2	1392.3	1368.7	1332.6	1287.3	1200.7	1095.1	959.9	814.9	719.1	641.7
35°	1389.0	1383.1	1358.8	1317.5	1262.4	1179.1	1038.0	852.3	734.2	667.3	580.0
37.5°	1367.4	1358.8	1330.0	1281.4	1214.5	1105.6	921.2	765.0	688.9	613.5	496.0
40°	1314.9	1301.1	1267.6	1217.1	1150.2	1007.2	814.9	712.6	641.7	537.4	402.2
42.5°	1114.1	1106.9	1123.3	1114.8	1055.7	887.1	739.5	664.7	566.9	434.4	291.3
45°	733.5	746.0	775.5	826.1	837.9	763.1	677.8	585.9	466.5	321.5	168.0
47.5°	679.1	676.5	683.7	693.5	695.5	664.0	586.6	484.2	346.4	183.7	46.6
50°	671.9	667.9	662.0	650.2	625.3	564.3	476.3	353.0	200.1	50.5	3.3
52.5°	530.8	526.9	526.9	509.8	477.7	418.6	328.7	194.2	55.8	3.3	2.6
55°	177.2	189.0	187.0	186.3	200.8	185.0	141.7	49.9	4.6	2.6	2.6
57.5°	3.3	3.3	3.3	5.9	9.2	13.1	7.9	3.9	2.6	2.6	2.6
60°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
77.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
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°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0
2.5°	554.4	545.2	527.5	477.0	421.2	357.6	314.3	309.0
5°	604.3	590.5	561.6	458.6	331.3	220.5	164.0	143.0
7.5°	637.1	618.7	583.3	428.4	241.5	116.1	62.3	49.9
10°	656.8	639.7	594.4	383.2	153.5	45.9	21.0	19.7
12.5°	667.3	650.9	598.4	328.7	86.6	21.0	16.4	16.4
15°	674.5	656.8	592.5	265.7	43.3	15.7	15.1	15.1
17.5°	677.8	656.1	575.4	200.1	23.0	14.4	14.4	14.4
20°	679.7	648.9	543.9	136.5	15.7	13.1	13.8	13.8
22.5°	681.7	631.2	502.6	86.6	12.5	12.5	13.1	13.1
25°	677.8	600.4	444.2	52.5	11.2	11.8	12.5	13.1
27.5°	649.6	553.8	373.3	32.2	9.8	11.2	12.5	13.1
30°	601.0	485.5	291.3	20.3	9.2	11.2	12.5	13.1
32.5°	538.0	407.5	208.0	12.5	9.2	11.2	12.5	13.1
35°	453.4	311.7	135.2	8.5	9.2	11.2	13.1	13.8
37.5°	358.2	217.8	72.8	6.6	9.2	11.2	13.1	13.8
40°	257.9	130.6	26.2	5.9	8.5	11.8	13.8	14.4
42.5°	150.9	48.6	4.6	5.2	8.5	11.8	13.8	14.4
45°	43.3	5.2	2.6	5.2	8.5	11.8	14.4	15.1
47.5°	3.3	2.0	2.6	5.2	8.5	11.8	14.4	15.7
50°	2.0	2.0	2.0	5.2	8.5	12.5	15.1	15.7
52.5°	2.6	2.6	2.6	5.2	8.5	12.5	15.1	15.7
55°	2.6	2.6	2.6	5.2	8.5	12.5	15.1	15.7
57.5°	2.6	2.6	2.6	5.2	8.5	11.8	15.1	15.7
60°	2.6	2.6	2.6	4.6	7.9	11.8	14.4	15.1
62.5°	2.6	2.6	2.6	4.6	7.9	11.2	14.4	14.4
65°	2.6	2.6	2.6	3.9	7.2	10.5	13.1	13.8
67.5°	2.6	2.6	2.6	3.9	6.6	9.8	12.5	13.1
70°	2.0	2.6	2.6	3.3	5.9	9.2	11.8	12.5
72.5°	2.0	2.0	2.6	3.3	5.2	7.9	10.5	11.2
75°	2.0	2.0	2.0	2.6	4.6	7.2	9.2	9.8
77.5°	2.0	2.0	2.0	2.6	3.9	5.9	8.5	8.5
80°	1.3	2.0	2.0	2.0	3.3	4.6	6.6	7.2
82.5°	1.3	1.3	1.3	2.0	2.6	3.9	5.2	5.2
85°	1.3	1.3	1.3	1.3	2.0	2.6	3.3	3.3
87.5°	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)