

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: P1320154

Luminaire Tested: LDSQA3D13R509840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320154
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: LDSQA3D13R509840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

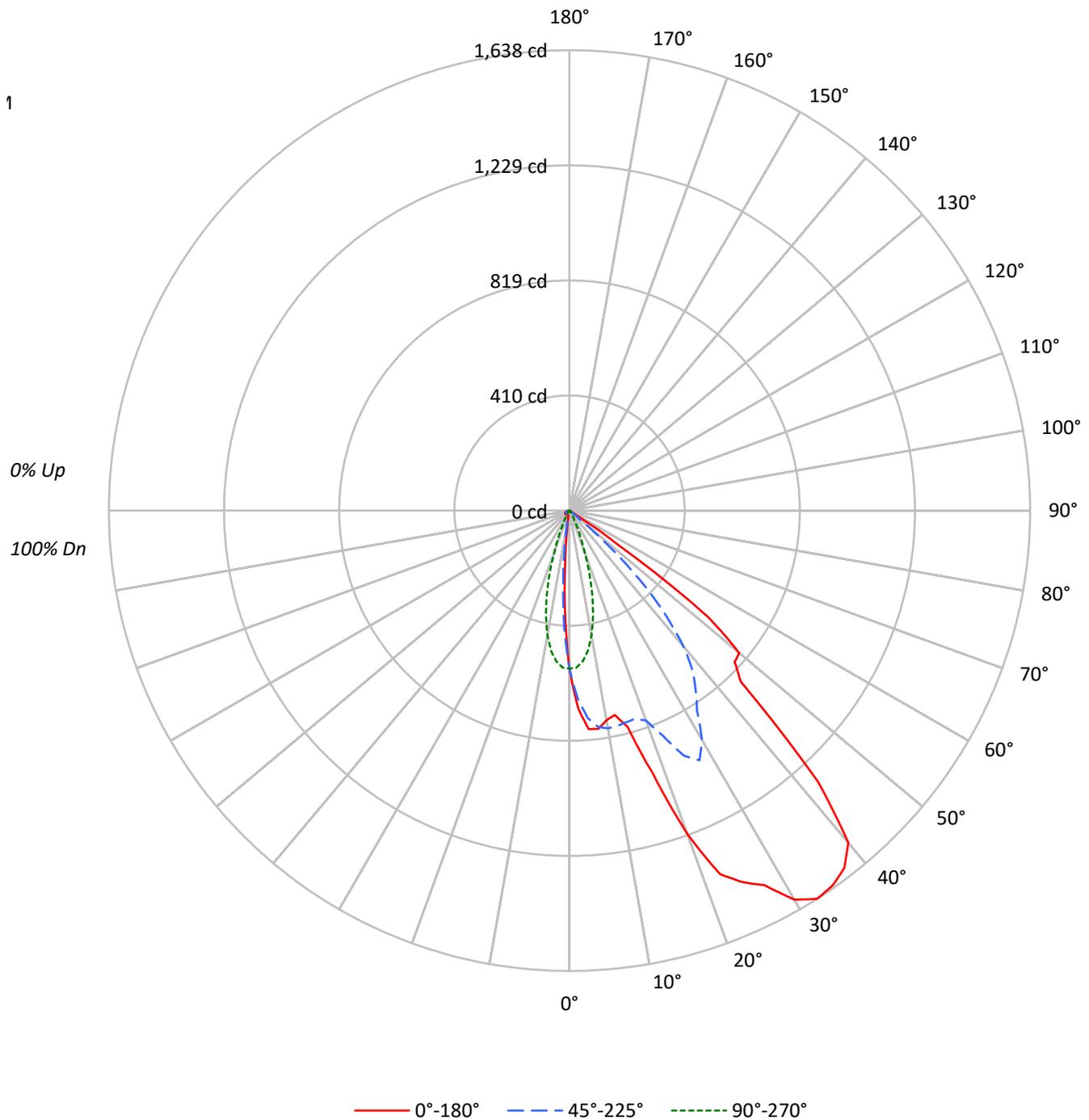
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 874.0 lumens
Efficiency: N/A
Efficacy: 60.3 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): 14.5
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°	96772	96772	96772	96772	96772
5°	134933	128018	93010	44707	29009
10°	132454	137578	78608	9426	4040
15°	142050	139019	55575	3299	3156
20°	224311	145594	29342	2822	2969
25°	277192	182844	11706	2641	2926
30°	317787	187510	4753	2605	3063
35°	342594	164580	2102	2754	3406
40°	346808	141727	1551	3125	3799
45°	209607	91871	1510	3385	4311
50°	211183	15888	1661	3912	4957
55°	62394	931	1862	4384	5555
60°	1068	1068	1860	4788	6097
65°	937	937	1875	5012	6602
70°	1158	1158	1913	5438	7352
75°	998	998	2063	5656	7652
80°	793	1488	2281	5356	8430
85°	1581	2964	2964	6126	7509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 239419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	5.2
10°-20°	112.8	12.9
20°-30°	211.4	24.2
30°-40°	252.7	28.9
40°-50°	181.1	20.7
50°-60°	55.8	6.4
60°-70°	7.3	0.8
70°-80°	5.3	0.6
80°-90°	2.2	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°	369.6	42.3
0°-40°	622.3	71.2
0°-60°	859.3	98.3
0°-90°	874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	874.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	562	562	562	562	562	
5°	780	740	538	259	168	73
15°	797	780	312	18	18	255
25°	1459	962	62	14	15	672
35°	1630	783	10	13	16	1011
45°	861	377	6	14	18	790
55°	208	3	6	15	18	268
65°	2	2	5	12	16	3
75°	2	2	3	8	12	1
85°	1	2	2	3	4	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°	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
2.5°	702.8	704.3	706.6	700.5	696.6	693.5	688.1	686.6	673.5	668.1	662.7
5°	780.5	779.0	780.5	778.2	776.7	772.0	767.4	759.7	751.3	740.5	728.2
7.5°	782.8	781.3	784.4	784.4	787.4	787.4	787.4	788.2	783.6	775.9	765.1
10°	757.4	757.4	760.5	759.0	764.3	766.7	772.0	781.3	785.9	786.7	783.6
12.5°	744.3	744.3	745.1	742.0	743.6	745.9	752.0	762.8	773.6	784.4	790.5
15°	796.7	798.2	787.4	772.0	760.5	748.2	744.3	751.3	762.8	779.7	793.6
17.5°	974.5	976.8	965.2	928.3	892.9	842.1	796.7	774.4	762.0	775.9	794.4
20°	1223.9	1215.4	1195.4	1156.1	1104.6	1026.1	955.2	883.7	815.2	794.4	800.5
22.5°	1400.2	1397.1	1380.9	1337.0	1292.4	1219.3	1129.2	1029.1	929.8	866.7	833.6
25°	1458.7	1456.3	1441.7	1415.5	1390.9	1335.5	1254.7	1153.8	1049.9	962.2	879.0
27.5°	1502.5	1499.4	1476.4	1447.1	1421.7	1365.5	1291.6	1215.4	1120.0	1001.4	873.7
30°	1598.0	1589.5	1557.2	1504.8	1456.3	1378.6	1297.0	1202.3	1073.0	942.9	818.2
32.5°	1638.0	1633.4	1605.7	1563.3	1510.2	1408.6	1284.7	1126.1	956.0	843.6	752.8
35°	1629.5	1622.6	1594.1	1545.6	1481.0	1383.2	1217.7	999.9	861.3	782.8	680.4
37.5°	1604.1	1594.1	1560.3	1503.3	1424.8	1297.0	1080.7	897.5	808.2	719.7	581.9
40°	1542.6	1526.4	1487.1	1427.9	1349.3	1181.5	956.0	835.9	752.8	630.4	471.8
42.5°	1307.0	1298.5	1317.8	1307.8	1238.5	1040.7	867.5	779.7	665.1	509.6	341.8
45°	860.6	875.2	909.8	969.1	983.0	895.2	795.1	687.4	547.3	377.2	197.1
47.5°	796.7	793.6	802.1	813.6	815.9	779.0	688.1	568.1	406.4	215.5	54.7
50°	788.2	783.6	776.7	762.8	733.6	662.0	558.8	414.1	234.8	59.3	3.8
52.5°	622.7	618.1	618.1	598.1	560.4	491.1	385.6	227.8	65.4	3.8	3.1
55°	207.8	221.7	219.4	218.6	235.5	217.1	166.3	58.5	5.4	3.1	3.1
57.5°	3.8	3.8	3.8	6.9	10.8	15.4	9.2	4.6	3.1	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
70°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3
77.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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°	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
2.5°	650.4	639.7	618.9	559.6	494.2	419.5	368.7	362.5
5°	708.9	692.8	658.9	538.0	388.7	258.6	192.4	167.8
7.5°	747.4	725.9	684.3	502.6	283.3	136.2	73.1	58.5
10°	770.5	750.5	697.4	449.5	180.1	53.9	24.6	23.1
12.5°	782.8	763.6	702.0	385.6	101.6	24.6	19.2	19.2
15°	791.3	770.5	695.1	311.7	50.8	18.5	17.7	17.7
17.5°	795.1	769.7	675.1	234.8	26.9	16.9	16.9	16.9
20°	797.4	761.3	638.1	160.1	18.5	15.4	16.2	16.2
22.5°	799.8	740.5	589.6	101.6	14.6	14.6	15.4	15.4
25°	795.1	704.3	521.1	61.6	13.1	13.9	14.6	15.4
27.5°	762.0	649.7	438.0	37.7	11.5	13.1	14.6	15.4
30°	705.1	569.6	341.8	23.9	10.8	13.1	14.6	15.4
32.5°	631.2	478.0	244.0	14.6	10.8	13.1	14.6	15.4
35°	531.9	365.6	158.6	10.0	10.8	13.1	15.4	16.2
37.5°	420.3	255.6	85.4	7.7	10.8	13.1	15.4	16.2
40°	302.5	153.2	30.8	6.9	10.0	13.9	16.2	16.9
42.5°	177.0	57.0	5.4	6.2	10.0	13.9	16.2	16.9
45°	50.8	6.2	3.1	6.2	10.0	13.9	16.9	17.7
47.5°	3.8	2.3	3.1	6.2	10.0	13.9	16.9	18.5
50°	2.3	2.3	2.3	6.2	10.0	14.6	17.7	18.5
52.5°	3.1	3.1	3.1	6.2	10.0	14.6	17.7	18.5
55°	3.1	3.1	3.1	6.2	10.0	14.6	17.7	18.5
57.5°	3.1	3.1	3.1	6.2	10.0	13.9	17.7	18.5
60°	3.1	3.1	3.1	5.4	9.2	13.9	16.9	17.7
62.5°	3.1	3.1	3.1	5.4	9.2	13.1	16.9	16.9
65°	3.1	3.1	3.1	4.6	8.5	12.3	15.4	16.2
67.5°	3.1	3.1	3.1	4.6	7.7	11.5	14.6	15.4
70°	2.3	3.1	3.1	3.8	6.9	10.8	13.9	14.6
72.5°	2.3	2.3	3.1	3.8	6.2	9.2	12.3	13.1
75°	2.3	2.3	2.3	3.1	5.4	8.5	10.8	11.5
77.5°	2.3	2.3	2.3	3.1	4.6	6.9	10.0	10.0
80°	1.5	2.3	2.3	2.3	3.8	5.4	7.7	8.5
82.5°	1.5	1.5	1.5	2.3	3.1	4.6	6.2	6.2
85°	1.5	1.5	1.5	1.5	2.3	3.1	3.8	3.8
87.5°	0.8	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)