

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: P1317517

Luminaire Tested: LDSQA3D13R459827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

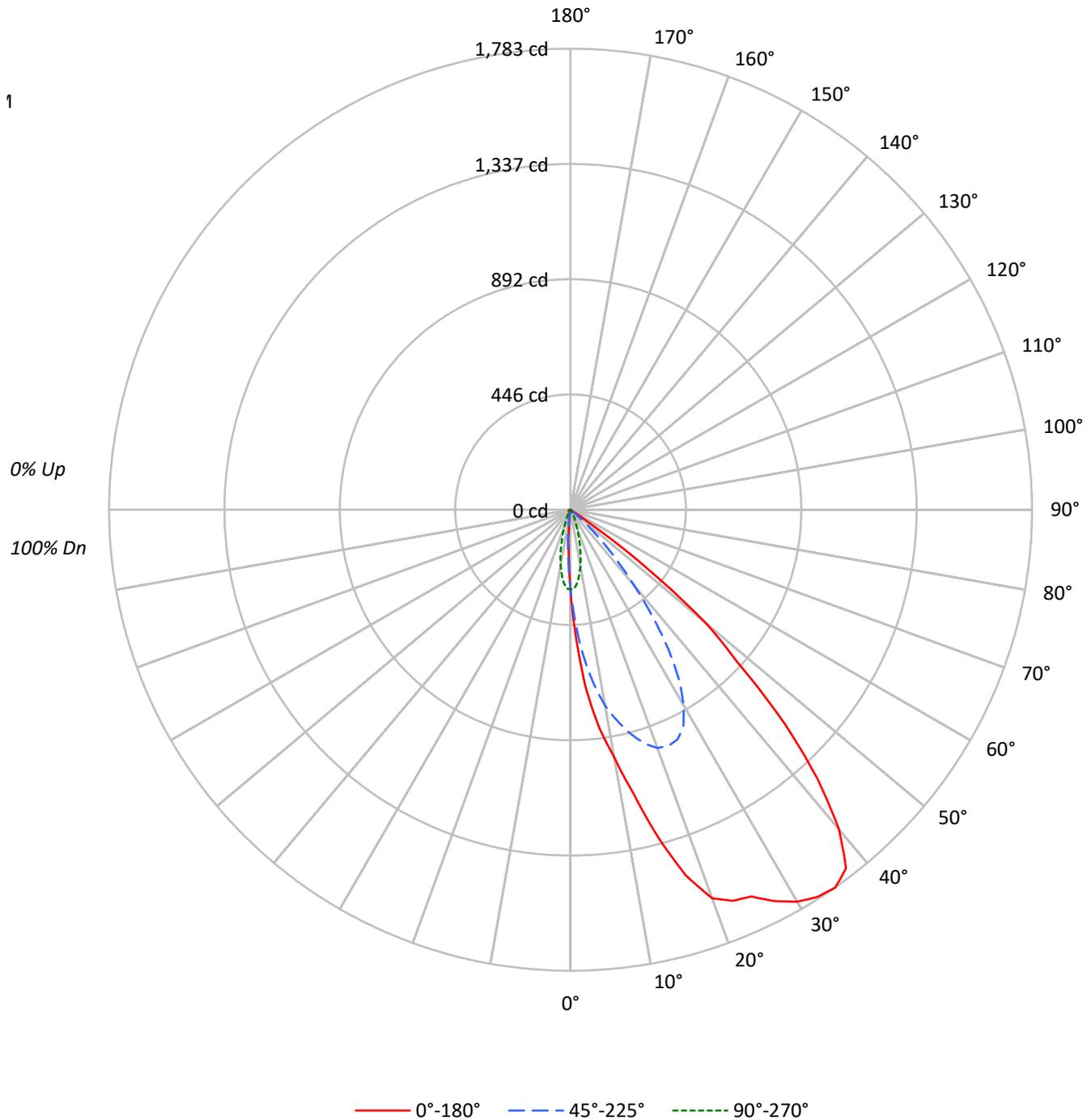
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.1 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	52958	52958	52958	52958	52958
5°	120671	97902	49530	19864	13554
10°	170053	134482	38281	4372	2011
15°	234337	160005	24462	1444	1212
20°	293021	179702	12756	990	990
25°	313563	186055	5910	779	893
30°	348055	173749	2685	815	935
35°	374930	138509	862	862	1135
40°	362793	85837	450	1057	1371
45°	284892	40480	487	1315	1656
50°	183050	4716	723	1634	2170
55°	27804	420	811	2042	2642
60°	482	482	930	2342	2790
65°	571	571	1100	2486	3301
70°	705	705	1360	2719	3726
75°	466	932	1797	3127	4059
80°	694	1389	1984	3372	4661
85°	0	1383	2766	3952	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 284892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	4.2
10°-20°	121.7	15.1
20°-30°	213.7	26.4
30°-40°	242.7	30.0
40°-50°	157.2	19.4
50°-60°	30.9	3.8
60°-70°	3.8	0.5
70°-80°	3.1	0.4
80°-90°	1.4	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°	369.0	45.7
0°-40°	611.7	75.7
0°-60°	799.7	99.0
0°-90°	808.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	308	308	308	308	308	
5°	698	566	286	115	78	74
15°	1314	897	137	8	7	379
25°	1650	979	31	4	5	774
35°	1783	659	4	4	5	1096
45°	1170	166	2	5	7	882
55°	93	1	3	7	9	177
65°	1	1	3	6	8	1
75°	1	1	3	5	6	1
85°	0	1	1	2	2	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°	307.5	307.5	307.5	307.5	307.5	307.5	307.5	307.5	307.5	307.5	307.5
2.5°	499.4	498.0	500.0	486.5	485.9	475.7	473.0	461.5	446.0	438.6	421.0
5°	698.0	691.3	691.3	675.1	669.7	658.2	638.6	614.2	594.0	566.3	536.5
7.5°	851.4	850.1	850.1	835.9	822.4	806.2	779.8	752.1	719.7	677.1	633.8
10°	972.4	974.4	968.3	955.5	935.9	918.3	887.2	853.5	813.6	769.0	711.6
12.5°	1125.1	1110.2	1105.5	1076.4	1051.4	1017.7	980.5	942.0	892.6	836.6	771.7
15°	1314.3	1295.4	1276.5	1237.9	1196.1	1144.0	1085.9	1029.1	965.6	897.4	816.3
17.5°	1483.2	1483.2	1458.2	1397.4	1343.4	1266.3	1187.9	1112.3	1037.3	947.4	846.0
20°	1598.8	1592.7	1573.8	1529.2	1467.7	1380.5	1278.5	1172.4	1081.9	980.5	862.9
22.5°	1636.6	1635.3	1636.0	1609.6	1560.3	1469.7	1344.7	1219.7	1106.2	988.6	854.8
25°	1650.1	1652.9	1659.6	1649.5	1612.3	1521.8	1385.3	1242.0	1113.6	979.1	823.7
27.5°	1706.2	1700.8	1708.3	1701.5	1659.6	1551.5	1393.4	1236.6	1097.4	944.7	768.3
30°	1750.2	1748.8	1761.6	1755.6	1700.8	1570.4	1385.9	1216.3	1057.5	873.7	681.1
32.5°	1775.2	1775.8	1779.2	1754.2	1673.1	1529.2	1349.4	1175.1	982.5	781.2	567.6
35°	1783.3	1779.2	1760.3	1698.8	1588.0	1433.9	1259.6	1077.1	880.5	658.8	448.7
37.5°	1748.1	1727.2	1678.5	1586.6	1458.2	1314.3	1144.7	953.5	740.6	520.3	334.5
40°	1613.7	1586.0	1524.5	1430.5	1310.9	1171.7	998.1	798.0	574.4	381.8	235.2
42.5°	1412.3	1398.1	1333.9	1252.1	1150.8	1010.2	831.2	628.4	425.0	263.5	150.0
45°	1169.7	1151.5	1110.9	1038.6	958.9	811.6	644.7	450.0	289.9	166.2	74.3
47.5°	877.1	878.5	850.8	796.0	717.6	594.6	441.3	302.1	181.8	85.8	16.9
50°	683.2	673.7	634.5	578.4	487.2	396.0	285.2	190.6	96.0	17.6	1.4
52.5°	378.4	384.5	363.5	345.3	298.0	236.5	168.3	96.6	20.3	2.0	1.4
55°	92.6	98.0	93.9	96.0	99.3	88.5	68.2	18.9	2.0	1.4	1.4
57.5°	2.0	2.0	2.0	2.0	3.4	4.7	4.7	1.4	1.4	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	307.5	307.5	307.5	307.5	307.5	307.5	307.5	307.5
2.5°	412.2	399.4	375.7	305.4	245.3	198.0	169.6	166.9
5°	510.2	475.7	425.7	286.5	181.1	114.9	83.1	78.4
7.5°	587.9	539.2	462.2	255.4	123.7	58.8	32.4	27.0
10°	652.1	583.2	481.1	218.9	77.7	25.0	13.5	11.5
12.5°	696.0	612.9	484.5	178.4	44.6	12.2	8.8	8.1
15°	724.4	622.4	468.3	137.2	25.0	8.1	7.4	6.8
17.5°	735.9	614.2	437.2	99.3	13.5	6.1	6.1	6.1
20°	730.5	587.9	391.3	69.6	8.8	5.4	5.4	5.4
22.5°	704.8	542.6	333.8	46.6	6.1	4.7	4.7	4.7
25°	654.1	481.1	273.0	31.1	4.1	4.1	4.7	4.7
27.5°	578.4	405.4	208.8	20.9	3.4	4.1	4.7	4.7
30°	483.2	321.0	150.0	13.5	3.4	4.1	4.1	4.7
32.5°	383.8	233.8	98.7	8.1	2.7	4.1	4.7	5.4
35°	278.4	159.5	62.8	4.1	3.4	4.1	4.7	5.4
37.5°	195.3	104.1	36.5	2.7	3.4	4.1	5.4	5.4
40°	127.0	58.1	13.5	2.0	3.4	4.7	5.4	6.1
42.5°	66.2	20.3	2.7	2.0	3.4	4.7	6.1	6.8
45°	16.9	2.7	0.7	2.0	4.1	5.4	6.8	6.8
47.5°	2.0	0.7	0.7	2.7	4.1	6.1	6.8	7.4
50°	0.7	1.4	1.4	2.7	4.1	6.1	7.4	8.1
52.5°	1.4	1.4	1.4	2.7	4.7	6.1	8.1	8.8
55°	1.4	1.4	1.4	2.7	4.7	6.8	8.1	8.8
57.5°	1.4	1.4	1.4	2.7	4.7	6.8	8.1	8.1
60°	1.4	1.4	1.4	2.7	4.7	6.8	8.1	8.1
62.5°	1.4	1.4	2.0	2.7	4.7	6.1	8.1	8.1
65°	1.4	2.0	2.0	2.7	4.7	6.1	7.4	8.1
67.5°	1.4	1.4	2.0	2.7	4.7	6.1	7.4	8.1
70°	1.4	1.4	2.0	2.7	4.1	5.4	6.8	7.4
72.5°	1.4	1.4	2.0	2.7	4.1	5.4	6.1	6.8
75°	1.4	1.4	2.0	2.7	3.4	4.7	6.1	6.1
77.5°	1.4	1.4	2.0	2.0	3.4	4.1	5.4	5.4
80°	1.4	1.4	2.0	2.0	2.7	3.4	4.1	4.7
82.5°	1.4	1.4	1.4	2.0	2.0	2.7	3.4	3.4
85°	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0
87.5°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)