

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: P1309431

Luminaire Tested: LDSQA3D17R409030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R409030DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

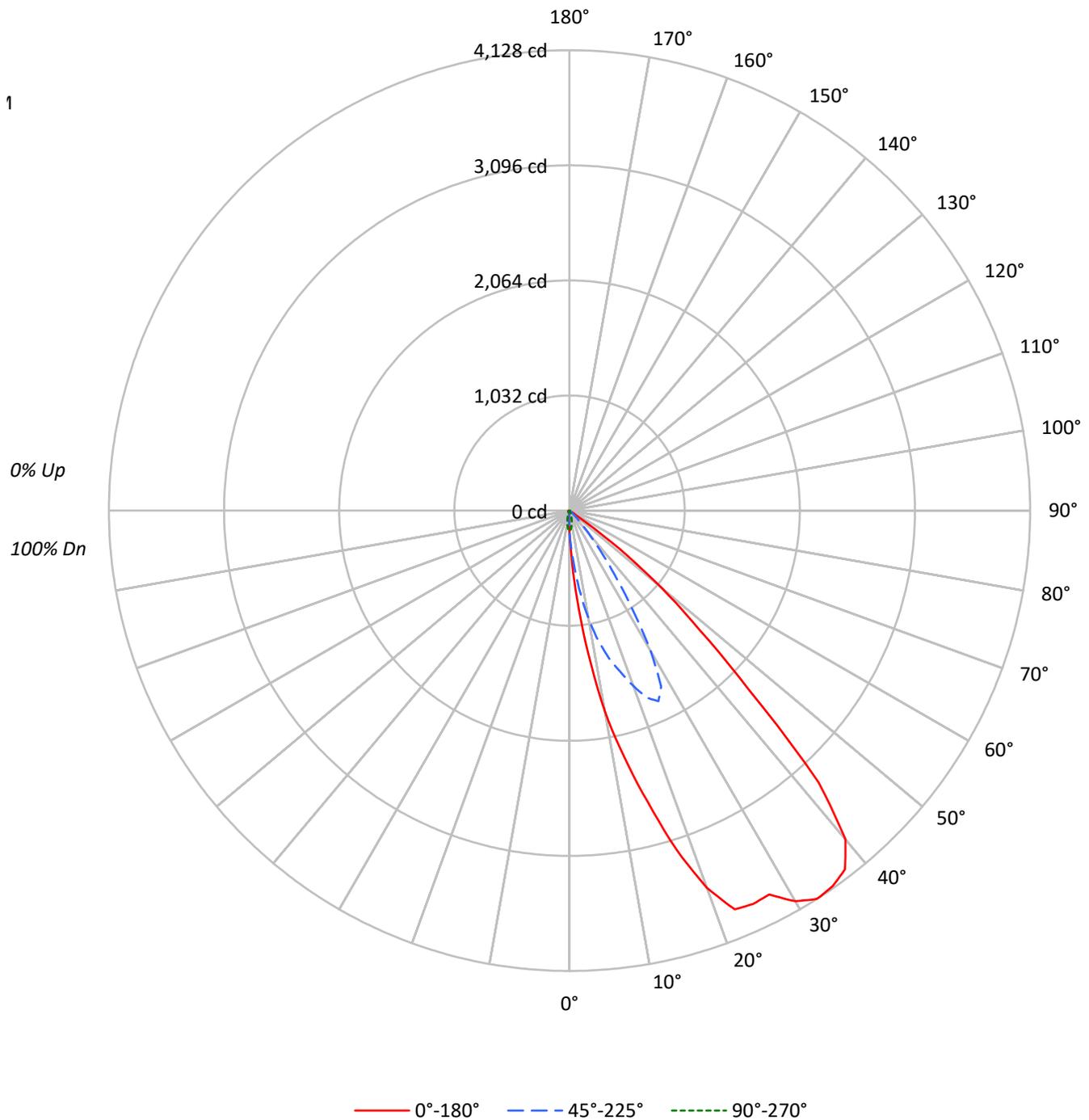
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1523.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
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 (A_{in}): 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				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	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67				67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60				60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54				54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49				49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40				40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31035	31035	31035	31035	31035
5°	139981	89241	27816	10684	7797
10°	321009	172431	19586	3830	2920
15°	481743	244661	12160	2068	1836
20°	659609	306693	7074	1173	1411
25°	739432	358352	3668	969	1216
30°	804292	289270	1531	776	1273
35°	864401	148034	547	1072	1619
40°	864705	59038	292	1147	2023
45°	552101	19753	633	1875	2825
50°	286606	2411	1045	2411	3456
55°	24742	390	1171	3093	4264
60°	896	448	1343	3548	4891
65°	1060	530	2078	3668	5257
70°	655	655	2568	3877	5187
75°	865	865	2595	4259	5989
80°	1289	1289	3868	3868	5058
85°	0	2569	7707	5138	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 552101 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	2.3
10°-20°	206.1	13.5
20°-30°	451.5	29.6
30°-40°	514.3	33.8
40°-50°	271.4	17.8
50°-60°	32.0	2.1
60°-70°	5.8	0.4
70°-80°	4.7	0.3
80°-90°	2.2	0.1
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°	692.7	45.5
0°-40°	1207.0	79.2
0°-60°	1510.4	99.2
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	180	180	180	180	180	
5°	810	516	161	62	45	109
15°	2702	1372	68	12	10	796
25°	3891	1886	19	5	6	1793
35°	4111	704	3	5	8	2548
45°	2267	81	3	8	12	1828
55°	82	1	4	10	14	256
65°	3	1	5	9	13	2
75°	1	1	4	6	9	1
85°	0	1	4	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°	67.5°
0°	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2	180.2
2.5°	401.6	401.6	400.3	388.7	387.5	386.2	365.6	360.4	336.0	319.2	243.3
5°	809.7	791.6	790.3	769.8	735.0	688.7	659.1	611.4	565.1	516.2	299.9
7.5°	1289.8	1305.2	1262.8	1240.9	1163.6	1108.3	1023.3	948.7	844.4	746.6	346.3
10°	1835.6	1808.5	1766.1	1723.6	1639.9	1540.8	1414.6	1282.1	1131.5	986.0	372.0
12.5°	2261.6	2226.9	2201.1	2143.2	2060.8	1933.4	1782.8	1605.2	1405.6	1195.8	370.7
15°	2701.9	2667.1	2609.2	2557.7	2435.4	2292.5	2129.0	1894.8	1650.2	1372.2	343.7
17.5°	3185.9	3140.8	3076.4	2997.9	2879.5	2721.2	2513.9	2228.2	1881.9	1516.3	294.8
20°	3599.0	3572.0	3507.7	3415.0	3299.1	3144.7	2905.2	2588.6	2166.4	1673.4	234.3
22.5°	3869.4	3844.9	3801.1	3720.0	3632.5	3467.8	3248.9	2901.4	2404.5	1816.3	177.6
25°	3891.2	3880.9	3869.4	3842.3	3789.6	3672.4	3458.7	3084.2	2552.5	1885.8	131.3
27.5°	3879.7	3875.8	3873.2	3859.1	3824.3	3708.5	3489.6	3111.2	2533.2	1777.6	96.5
30°	4044.4	4032.8	4026.4	3980.1	3888.7	3709.7	3424.0	2965.7	2251.3	1454.6	69.5
32.5°	4128.1	4125.5	4119.1	4074.0	3945.3	3712.3	3313.3	2614.3	1785.4	1050.4	47.6
35°	4111.4	4098.5	4075.3	3991.6	3812.7	3520.5	2955.4	2087.9	1288.5	704.1	30.9
37.5°	4054.7	4025.1	3980.1	3829.5	3591.3	3192.3	2396.8	1536.9	876.6	455.7	18.0
40°	3846.2	3806.3	3735.5	3551.4	3238.6	2631.1	1772.5	1038.8	575.4	262.6	5.1
42.5°	3306.8	3255.4	3203.9	2997.9	2640.1	1961.7	1166.2	642.3	328.2	144.2	1.3
45°	2266.8	2202.4	2131.6	1982.3	1695.3	1188.1	693.8	361.7	169.9	81.1	1.3
47.5°	1574.3	1544.7	1421.1	1230.6	943.5	629.4	359.1	177.6	90.1	37.3	1.3
50°	1069.7	1036.2	892.0	708.0	502.0	301.2	164.8	88.8	39.9	9.0	1.3
52.5°	561.2	520.0	428.6	327.0	203.4	126.1	72.1	38.6	11.6	1.3	1.3
55°	82.4	75.9	61.8	50.2	45.1	34.8	20.6	9.0	1.3	1.3	2.6
57.5°	2.6	2.6	2.6	2.6	3.9	3.9	2.6	1.3	1.3	1.3	2.6
60°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	2.6
62.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	2.6
65°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	2.6
67.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	2.6	3.9
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.9
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.9
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
82.5°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.6
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):

	90°	112.5°	135°	157.5°	180°
0°	180.2	180.2	180.2	180.2	180.2
2.5°	177.6	131.3	101.7	87.5	86.2
5°	160.9	94.0	61.8	47.6	45.1
7.5°	136.4	65.6	36.0	25.7	24.5
10°	112.0	45.1	21.9	18.0	16.7
12.5°	88.8	29.6	15.4	14.2	12.9
15°	68.2	19.3	11.6	10.3	10.3
17.5°	51.5	12.9	9.0	9.0	9.0
20°	38.6	9.0	6.4	7.7	7.7
22.5°	27.0	6.4	5.1	6.4	6.4
25°	19.3	5.1	5.1	6.4	6.4
27.5°	12.9	3.9	3.9	5.1	6.4
30°	7.7	2.6	3.9	5.1	6.4
32.5°	3.9	2.6	3.9	6.4	6.4
35°	2.6	3.9	5.1	6.4	7.7
37.5°	1.3	3.9	5.1	7.7	7.7
40°	1.3	3.9	5.1	7.7	9.0
42.5°	2.6	5.1	6.4	9.0	10.3
45°	2.6	5.1	7.7	10.3	11.6
47.5°	2.6	5.1	9.0	11.6	11.6
50°	3.9	6.4	9.0	11.6	12.9
52.5°	3.9	6.4	9.0	12.9	14.2
55°	3.9	6.4	10.3	12.9	14.2
57.5°	3.9	7.7	10.3	12.9	14.2
60°	3.9	6.4	10.3	12.9	14.2
62.5°	5.1	6.4	9.0	12.9	12.9
65°	5.1	6.4	9.0	12.9	12.9
67.5°	5.1	6.4	9.0	11.6	11.6
70°	5.1	6.4	7.7	10.3	10.3
72.5°	5.1	6.4	7.7	9.0	10.3
75°	3.9	5.1	6.4	7.7	9.0
77.5°	3.9	5.1	5.1	7.7	7.7
80°	3.9	3.9	3.9	5.1	5.1
82.5°	3.9	3.9	2.6	3.9	3.9
85°	3.9	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)