

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: P1312890

Luminaire Tested: LDSQA3D20R409050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312890
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: LDSQA3D20R409050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

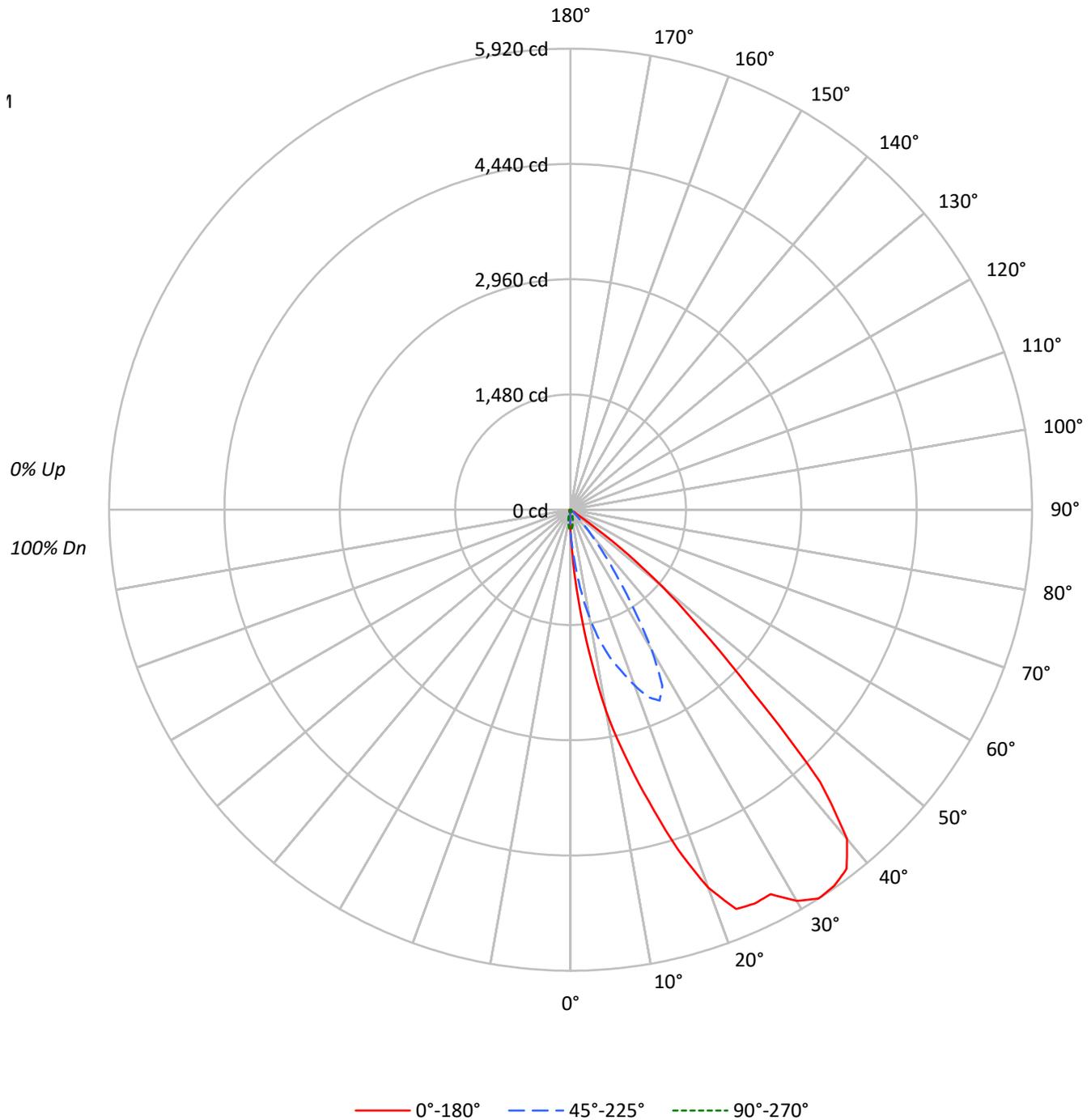
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2183.9 lumens
Efficiency: N/A
Efficacy: 75.8 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): 28.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	44502	44502	44502	44502	44502
5°	200732	127966	39884	15317	11168
10°	460318	247262	28086	5491	4197
15°	690816	350837	17438	2960	2639
20°	945903	439788	10153	1686	2034
25°	1060368	513870	5264	1406	1748
30°	1153361	414794	2207	1094	1830
35°	1239542	212284	778	1556	2334
40°	1239999	84667	405	1664	2900
45°	791715	28326	901	2704	4043
50°	410979	3456	1474	3456	4957
55°	35461	540	1651	4444	6095
60°	1274	620	1894	5098	6992
65°	1508	734	3016	5257	7539
70°	906	906	3726	5589	7452
75°	1198	1198	3660	6122	8584
80°	1785	1785	5455	5455	7339
85°	0	3557	10868	7311	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 791715 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	2.3
10°-20°	295.6	13.5
20°-30°	647.4	29.6
30°-40°	737.5	33.8
40°-50°	389.1	17.8
50°-60°	45.9	2.1
60°-70°	8.2	0.4
70°-80°	6.8	0.3
80°-90°	3.1	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°	993.3	45.5
0°-40°	1730.8	79.3
0°-60°	2165.9	99.2
0°-90°	2183.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2183.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	258	258	258	258	258	
5°	1161	740	231	89	65	156
15°	3874	1968	98	17	15	1142
25°	5580	2704	28	7	9	2571
35°	5896	1010	4	7	11	3654
45°	3251	116	4	11	17	2621
55°	118	2	6	15	20	367
65°	4	2	7	13	18	3
75°	2	2	6	9	13	2
85°	0	2	6	4	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°	67.5°
0°	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4
2.5°	575.9	575.9	574.1	557.5	555.6	553.8	524.2	516.8	481.8	457.8	348.9
5°	1161.1	1135.2	1133.4	1103.8	1054.0	987.5	945.1	876.8	810.3	740.2	430.1
7.5°	1849.6	1871.7	1810.8	1779.4	1668.7	1589.3	1467.5	1360.4	1210.9	1070.6	496.5
10°	2632.2	2593.5	2532.5	2471.6	2351.6	2209.5	2028.6	1838.5	1622.5	1413.9	533.5
12.5°	3243.2	3193.4	3156.5	3073.4	2955.3	2772.5	2556.5	2301.8	2015.7	1714.8	531.6
15°	3874.5	3824.7	3741.6	3667.8	3492.4	3287.5	3053.1	2717.1	2366.4	1967.7	492.8
17.5°	4568.5	4503.9	4411.6	4299.0	4129.2	3902.2	3605.0	3195.2	2698.7	2174.4	422.7
20°	5161.1	5122.3	5030.0	4897.1	4731.0	4509.5	4166.1	3712.1	3106.6	2399.6	335.9
22.5°	5548.7	5513.6	5450.9	5334.6	5209.1	4972.8	4659.0	4160.6	3448.1	2604.5	254.7
25°	5580.1	5565.3	5548.7	5509.9	5434.3	5266.3	4959.9	4422.7	3660.4	2704.2	188.3
27.5°	5563.5	5557.9	5554.2	5533.9	5484.1	5318.0	5004.2	4461.5	3632.7	2549.2	138.4
30°	5799.7	5783.1	5773.9	5707.5	5576.4	5319.8	4910.0	4252.9	3228.4	2085.8	99.7
32.5°	5919.7	5916.0	5906.8	5842.2	5657.6	5323.5	4751.3	3749.0	2560.2	1506.2	68.3
35°	5895.7	5877.3	5844.0	5724.1	5467.5	5048.5	4238.1	2994.0	1847.7	1009.7	44.3
37.5°	5814.5	5772.1	5707.5	5491.5	5150.0	4577.8	3437.0	2204.0	1257.0	653.4	25.8
40°	5515.5	5458.3	5356.7	5092.8	4644.2	3773.0	2541.8	1489.6	825.1	376.6	7.4
42.5°	4742.1	4668.2	4594.4	4299.0	3785.9	2813.1	1672.4	921.1	470.7	206.7	1.8
45°	3250.6	3158.3	3056.8	2842.7	2431.0	1703.7	994.9	518.7	243.7	116.3	1.8
47.5°	2257.5	2215.1	2037.8	1764.7	1353.0	902.6	515.0	254.7	129.2	53.5	1.8
50°	1533.9	1485.9	1279.2	1015.2	719.9	431.9	236.3	127.4	57.2	12.9	1.8
52.5°	804.8	745.7	614.7	468.9	291.6	180.9	103.4	55.4	16.6	1.8	1.8
55°	118.1	108.9	88.6	72.0	64.6	49.8	29.5	12.9	1.8	1.8	3.7
57.5°	3.7	3.7	3.7	3.7	5.5	5.5	3.7	1.8	1.8	1.8	3.7
60°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	3.7
62.5°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	3.7
65°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	3.7
67.5°	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	3.7	5.5
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.5
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.5
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.7
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):

	90°	112.5°	135°	157.5°	180°
0°	258.4	258.4	258.4	258.4	258.4
2.5°	254.7	188.3	145.8	125.5	123.7
5°	230.7	134.7	88.6	68.3	64.6
7.5°	195.7	94.1	51.7	36.9	35.1
10°	160.6	64.6	31.4	25.8	24.0
12.5°	127.4	42.5	22.2	20.3	18.5
15°	97.8	27.7	16.6	14.8	14.8
17.5°	73.8	18.5	12.9	12.9	12.9
20°	55.4	12.9	9.2	11.1	11.1
22.5°	38.8	9.2	7.4	9.2	9.2
25°	27.7	7.4	7.4	9.2	9.2
27.5°	18.5	5.5	5.5	7.4	9.2
30°	11.1	3.7	5.5	7.4	9.2
32.5°	5.5	3.7	5.5	9.2	9.2
35°	3.7	5.5	7.4	9.2	11.1
37.5°	1.8	5.5	7.4	11.1	11.1
40°	1.8	5.5	7.4	11.1	12.9
42.5°	3.7	7.4	9.2	12.9	14.8
45°	3.7	7.4	11.1	14.8	16.6
47.5°	3.7	7.4	12.9	16.6	16.6
50°	5.5	9.2	12.9	16.6	18.5
52.5°	5.5	9.2	12.9	18.5	20.3
55°	5.5	9.2	14.8	18.5	20.3
57.5°	5.5	11.1	14.8	18.5	20.3
60°	5.5	9.2	14.8	18.5	20.3
62.5°	7.4	9.2	12.9	18.5	18.5
65°	7.4	9.2	12.9	18.5	18.5
67.5°	7.4	9.2	12.9	16.6	16.6
70°	7.4	9.2	11.1	14.8	14.8
72.5°	7.4	9.2	11.1	12.9	14.8
75°	5.5	7.4	9.2	11.1	12.9
77.5°	5.5	7.4	7.4	11.1	11.1
80°	5.5	5.5	5.5	7.4	7.4
82.5°	5.5	5.5	3.7	5.5	5.5
85°	5.5	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)