

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: P1313455

Luminaire Tested: LDSQA3D09R159727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R159727DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

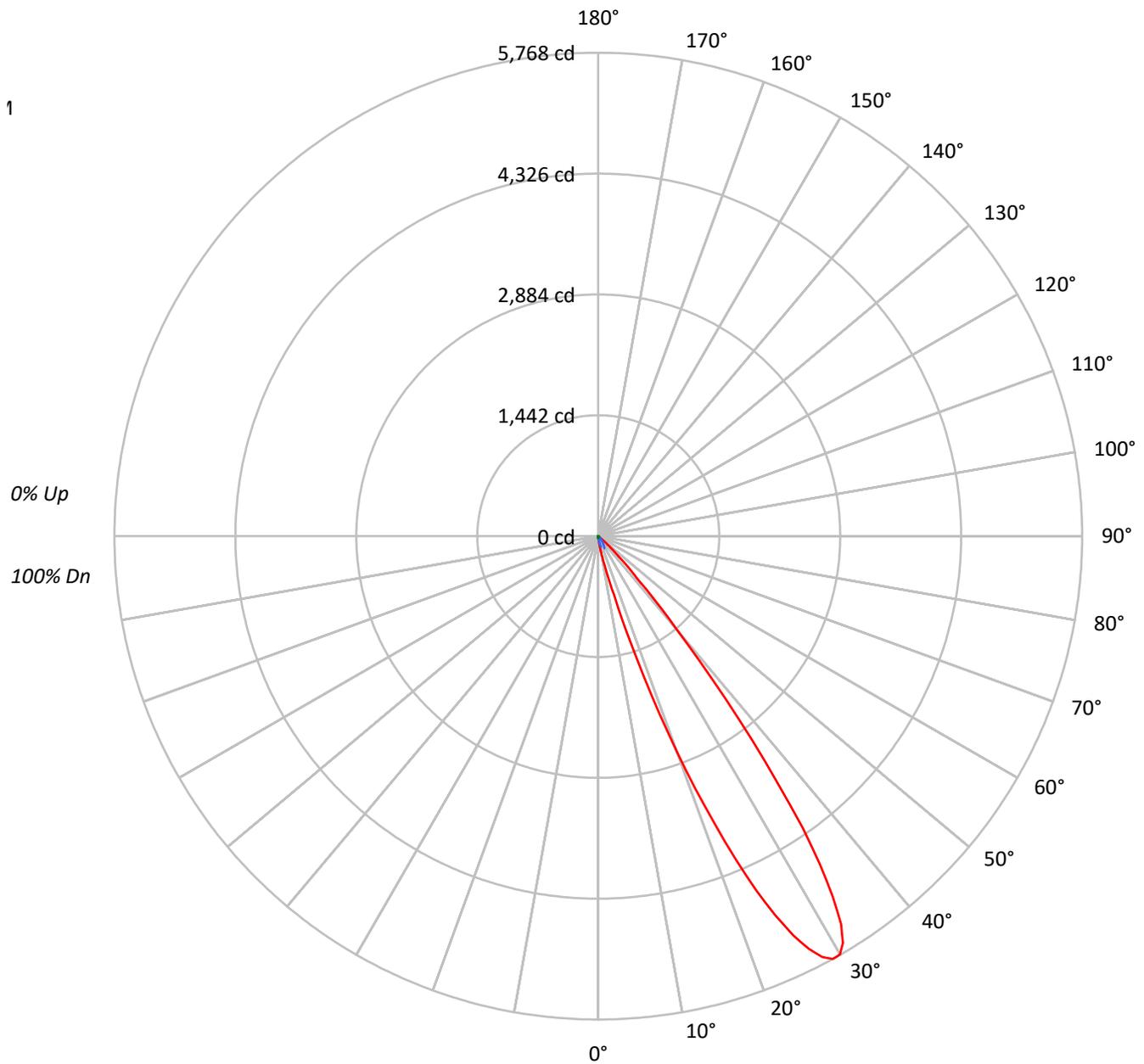
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 630.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
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 (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



— 0°-180° - - - 45°-225° ····· 90°-270°



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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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3582	3582	3582	3582	3582
5°	7728	5722	3388	1798	1487
10°	34294	10825	2676	752	542
15°	129694	25015	1854	321	214
20°	498803	35262	1118	110	110
25°	948518	33065	589	0	0
30°	1145824	26688	239	0	0
35°	893667	18165	126	0	0
40°	326125	8948	135	0	135
45°	83736	2679	146	0	292
50°	14120	322	161	161	482
55°	1832	0	360	540	931
60°	207	207	620	861	1274
65°	245	245	1019	1263	1508
70°	302	302	1259	1259	1561
75°	399	399	1664	1198	1664
80°	0	595	1785	1190	1785
85°	0	1186	3557	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 83736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.5
10°-20°	48.3	7.7
20°-30°	267.8	42.5
30°-40°	258.7	41.1
40°-50°	45.0	7.1
50°-60°	3.2	0.5
60°-70°	1.9	0.3
70°-80°	1.5	0.2
80°-90°	0.8	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°	318.9	50.6
0°-40°	577.6	91.7
0°-60°	625.8	99.3
0°-90°	630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	45	33	20	10	9	9
15°	727	140	10	2	1	324
25°	4992	174	3	0	0	2232
35°	4251	86	1	0	0	2445
45°	344	11	1	0	1	369
55°	6	0	1	2	3	12
65°	1	1	2	3	4	1
75°	1	1	2	2	2	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	30.6	29.4	30.0	30.0	30.0	30.0	30.0	28.8	28.8	29.4	26.4
5°	44.7	44.7	44.1	44.7	44.7	44.1	42.9	42.3	42.3	41.1	33.1
7.5°	89.5	88.2	88.2	87.0	80.9	79.1	77.8	74.8	69.2	68.0	42.9
10°	196.1	196.7	192.4	186.9	186.3	177.1	174.0	168.5	158.1	147.7	61.9
12.5°	356.1	348.1	337.7	338.3	320.5	314.4	300.3	285.0	269.0	252.5	101.7
15°	727.4	704.8	718.2	685.1	647.8	605.5	562.6	508.7	462.7	413.7	140.3
17.5°	1532.1	1554.1	1516.8	1375.2	1288.2	1185.8	1041.8	902.7	783.8	688.2	171.6
20°	2721.6	2754.1	2627.2	2504.0	2292.6	2062.2	1821.9	1549.9	1289.4	1063.9	192.4
21°	3218.6	3199.0	3146.9	2949.6	2705.7	2438.5	2144.3	1844.0	1528.4	1235.5	194.3
22°	3699.1	3708.2	3586.9	3380.4	3126.7	2830.7	2471.5	2100.8	1760.7	1375.2	191.2
23°	4177.7	4207.1	4046.5	3852.9	3533.6	3199.6	2784.1	2383.9	1963.5	1535.1	185.1
24°	4620.8	4600.5	4492.1	4248.1	3906.8	3515.8	3084.4	2599.0	2130.2	1671.8	180.2
25°	4991.5	4989.1	4818.7	4581.5	4191.2	3757.9	3282.3	2774.9	2273.0	1764.3	174.0
26°	5294.9	5245.2	5111.0	4821.8	4436.3	3979.1	3444.7	2903.0	2353.3	1810.9	167.9
27°	5529.0	5493.4	5313.3	5012.3	4609.7	4104.1	3548.9	2966.7	2390.0	1826.2	159.9
28°	5686.5	5647.9	5456.0	5145.9	4705.3	4182.6	3604.1	2993.7	2390.0	1811.5	152.6
29°	5768.0	5715.3	5524.1	5191.9	4727.4	4191.8	3590.6	2967.3	2352.7	1766.2	144.0
30°	5761.8	5696.3	5495.9	5150.2	4661.8	4116.4	3515.2	2872.3	2268.1	1698.8	134.2
31°	5662.6	5589.0	5365.3	5009.3	4526.4	3974.2	3373.0	2744.9	2152.3	1611.1	124.4
32°	5460.9	5367.8	5149.6	4794.8	4318.0	3761.6	3166.5	2548.2	1978.8	1483.1	114.0
33°	5132.5	5038.7	4804.6	4471.8	4036.1	3491.9	2892.6	2336.7	1781.5	1330.5	105.4
34°	4721.3	4635.5	4433.8	4098.6	3680.7	3150.6	2577.6	2044.4	1576.8	1179.1	96.2
35°	4250.6	4113.9	3931.3	3666.0	3258.4	2725.3	2237.4	1772.3	1366.0	1020.4	86.4
36°	3613.9	3638.4	3444.7	3119.9	2782.3	2364.3	1896.1	1477.5	1142.3	869.6	77.8
37°	3049.5	3010.8	2887.7	2636.4	2342.2	1927.4	1589.1	1252.6	960.9	735.4	68.6
38°	2459.9	2468.5	2347.8	2154.7	1863.0	1584.8	1279.0	1028.9	804.0	625.7	60.1
39°	1925.5	1918.8	1886.3	1707.3	1443.2	1260.6	1036.3	853.1	669.8	527.6	50.9
40°	1450.6	1461.6	1385.6	1277.8	1123.9	973.8	825.5	680.2	554.0	444.9	39.8
42.5°	705.4	722.5	672.3	644.7	576.7	517.8	436.9	356.7	303.4	262.3	17.8
45°	343.8	334.0	329.7	316.2	300.3	268.4	237.8	204.1	178.3	153.8	11.0
47.5°	175.9	171.0	171.0	165.5	159.9	149.5	134.2	123.2	110.9	95.6	4.3
50°	52.7	52.1	51.5	52.1	50.3	52.1	53.3	53.9	49.0	48.4	1.2
52.5°	20.8	21.4	20.8	22.7	22.7	22.1	22.7	22.1	21.4	19.0	0.0
55°	6.1	6.1	6.1	6.1	6.1	6.1	6.7	7.4	6.7	7.4	0.0
57.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	20.8	20.8	20.8	20.8	20.8	20.8
2.5°	24.5	21.4	17.8	14.7	13.5	12.9
5°	26.4	19.6	13.5	10.4	9.2	8.6
7.5°	28.2	17.8	10.4	7.4	5.5	4.9
10°	29.4	15.3	8.0	4.3	3.1	3.1
12.5°	29.4	12.3	5.5	2.5	1.8	1.8
15°	28.8	10.4	3.7	1.8	1.2	1.2
17.5°	28.2	8.0	2.5	1.2	0.6	1.2
20°	26.4	6.1	1.2	0.6	0.6	0.6
21°	25.7	5.5	1.2	0.6	0.6	0.6
22°	24.5	4.9	0.6	0.0	0.6	0.6
23°	23.3	3.7	0.6	0.0	0.0	0.0
24°	21.4	3.1	0.6	0.0	0.0	0.0
25°	20.2	3.1	0.6	0.0	0.0	0.0
26°	19.0	1.8	0.0	0.0	0.0	0.0
27°	17.2	1.2	0.0	0.0	0.0	0.0
28°	15.9	1.2	0.0	0.0	0.0	0.0
29°	14.1	1.2	0.0	0.0	0.0	0.0
30°	12.3	1.2	0.0	0.0	0.0	0.0
31°	9.8	0.6	0.0	0.0	0.0	0.0
32°	8.0	0.6	0.0	0.0	0.0	0.0
33°	5.5	0.6	0.0	0.0	0.0	0.0
34°	3.7	0.6	0.0	0.0	0.0	0.0
35°	3.1	0.6	0.0	0.0	0.0	0.0
36°	1.8	0.6	0.0	0.0	0.0	0.6
37°	1.8	0.6	0.0	0.0	0.0	0.6
38°	1.2	0.6	0.0	0.0	0.0	0.6
39°	0.6	0.6	0.0	0.0	0.0	0.6
40°	0.6	0.6	0.0	0.0	0.0	0.6
42.5°	0.0	0.6	0.0	0.0	0.6	1.2
45°	0.0	0.6	0.0	0.0	0.6	1.2
47.5°	0.0	0.6	0.0	0.0	1.2	1.2
50°	0.0	0.6	0.6	0.6	1.2	1.8
52.5°	0.0	1.2	0.6	1.2	1.8	2.5
55°	0.6	1.2	1.2	1.8	2.5	3.1
57.5°	0.6	1.8	1.8	2.5	3.1	3.1
60°	1.2	1.8	2.5	2.5	3.7	3.7
62.5°	1.2	2.5	2.5	2.5	3.7	3.7
65°	1.2	2.5	2.5	3.1	3.7	3.7
67.5°	1.2	2.5	2.5	2.5	3.1	3.7
70°	1.2	2.5	1.8	2.5	3.1	3.1
72.5°	1.2	2.5	1.8	1.8	2.5	3.1
75°	1.2	2.5	1.8	1.8	2.5	2.5
77.5°	1.2	1.8	1.8	1.2	1.8	1.8
80°	1.2	1.8	1.2	1.2	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.8	1.2	0.6	1.2	1.2
85°	1.2	1.8	1.2	0.6	0.6	0.6
87.5°	1.2	1.8	0.6	0.0	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)