

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: P1311730

Luminaire Tested: LDSQA3D20R159040D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R159040D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

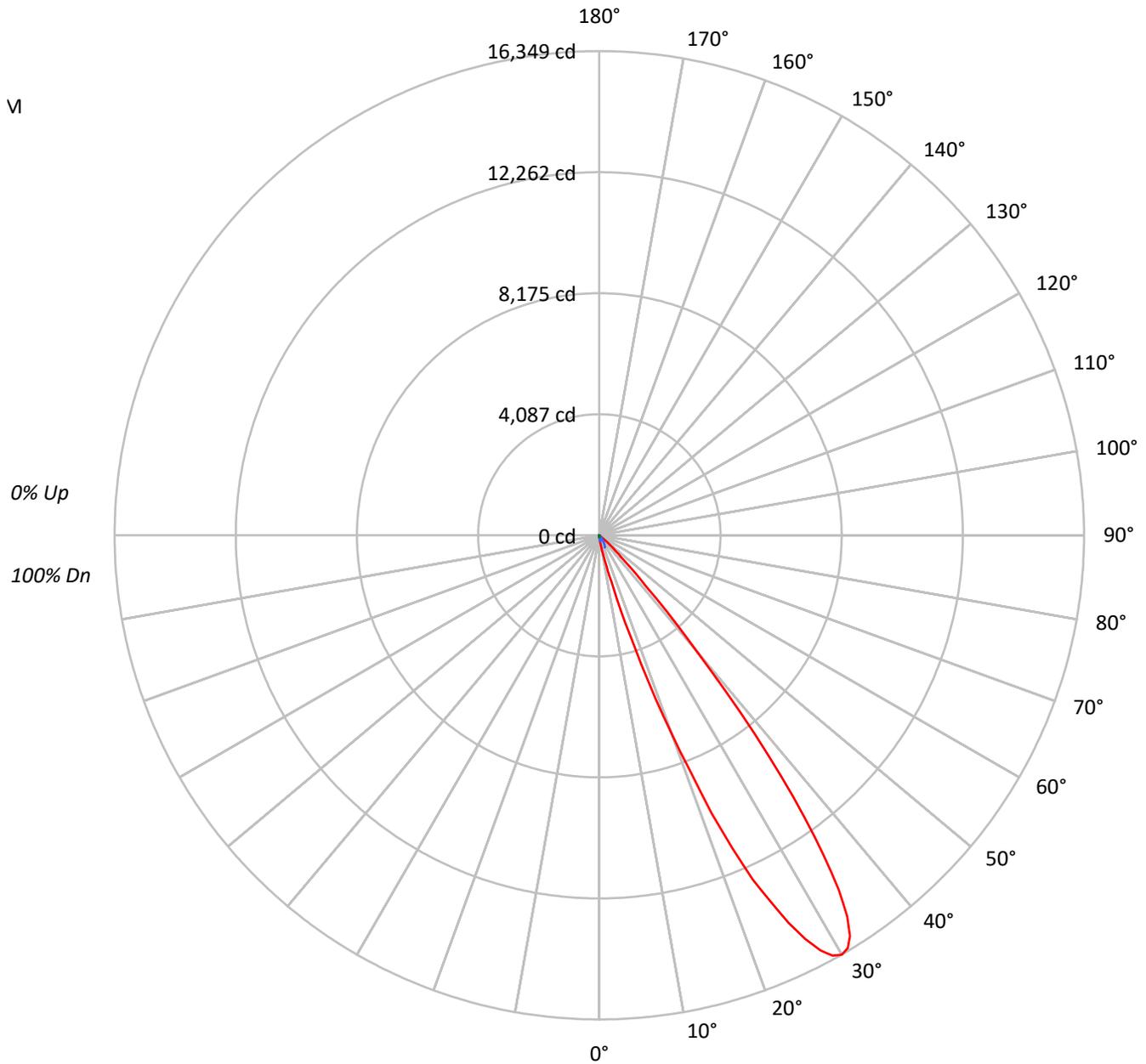
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1729.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
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 (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	
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41
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°	10643	10643	10643	10643	10643
5°	30807	23252	9111	3769	2507
10°	80130	34661	6033	0	0
15°	320277	56734	3245	0	0
20°	1308550	83647	1008	0	0
25°	2586719	82928	0	0	0
30°	3251194	65447	0	0	0
35°	2774015	40136	0	0	0
40°	1142067	12680	0	0	0
45°	247091	5310	0	0	0
50°	31669	0	0	0	0
55°	2732	0	540	0	0
60°	0	0	1240	0	0
65°	0	0	1467	0	0
70°	0	906	2769	0	0
75°	0	1198	3660	0	0
80°	0	1785	5455	0	0
85°	0	3557	10868	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 258612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.5
10°-20°	121.2	7.0
20°-30°	706.3	40.8
30°-40°	757.3	43.8
40°-50°	127.8	7.4
50°-60°	3.9	0.2
60°-70°	1.1	0.1
70°-80°	1.7	0.1
80°-90°	1.5	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°	835.7	48.3
0°-40°	1593.0	92.1
0°-60°	1724.7	99.8
0°-90°	1729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1729.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	178	134	53	22	14	24
15°	1796	318	18	0	0	831
25°	13612	436	0	0	0	6159
35°	13194	191	0	0	0	7583
45°	1014	22	0	0	0	1198
55°	9	0	2	0	0	23
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	112.7	114.5	116.4	116.4	116.4	116.4	114.5	114.5	114.5	114.5	112.7
5°	178.2	178.2	178.2	178.2	178.2	178.2	176.4	176.4	176.4	176.4	176.4
7.5°	254.5	250.9	252.7	247.3	250.9	249.1	247.3	250.9	250.9	241.8	241.8
10°	458.2	456.4	438.2	441.8	445.4	443.6	443.6	432.7	430.9	423.6	416.4
12.5°	883.6	903.6	918.2	918.2	883.6	896.3	872.7	878.2	881.8	870.9	832.7
15°	1796.3	1829.0	1794.5	1827.2	1814.5	1767.2	1714.5	1643.6	1670.9	1621.8	1605.4
17.5°	3934.4	4009.0	3978.1	3827.2	3876.3	3759.9	3687.2	3659.9	3583.5	3356.3	3261.7
20°	7139.8	7230.7	7145.3	6968.9	7025.3	6805.3	6748.9	6696.2	6358.0	6234.4	5838.0
21°	8488.9	8563.4	8596.2	8412.5	8299.8	8125.3	7979.8	7932.5	7727.1	7488.9	7081.6
22°	10117.9	10030.7	9834.3	9859.8	9692.5	9548.9	9347.0	9156.1	8927.1	8594.3	8258.0
23°	11467.0	11365.2	11272.4	11159.7	10979.7	10877.9	10588.8	10379.7	10081.6	9725.2	9401.6
24°	12723.3	12567.0	12508.8	12308.8	12257.9	12028.8	11794.3	11521.5	11161.5	10781.6	10423.4
25°	13612.4	13636.0	13585.1	13561.5	13301.5	13067.0	12834.2	12414.2	12107.0	11770.6	11219.7
26°	14565.1	14576.0	14550.6	14376.0	14141.5	13912.4	13612.4	13246.9	12801.5	12428.8	11930.6
27°	15294.2	15250.5	15214.2	15006.9	14814.2	14525.1	14252.4	13819.7	13385.1	12941.5	12363.3
28°	15876.0	15794.2	15748.7	15570.5	15345.1	14990.5	14656.0	14252.4	13817.8	13341.5	12716.1
29°	16226.9	16139.6	16088.7	15892.3	15632.3	15321.4	14983.3	14539.6	14072.4	13541.5	12912.4
30°	16348.7	16297.8	16217.8	16014.2	15745.1	15421.4	15074.2	14592.4	14103.3	13559.7	12894.2
31°	16268.7	16203.2	16126.9	15906.9	15616.0	15306.9	14903.3	14397.8	13883.3	13365.1	12659.7
32°	15950.5	15910.5	15817.8	15523.3	15286.9	14886.9	14488.7	14016.0	13454.2	12897.9	12259.7
33°	15354.2	15288.7	15208.7	14939.6	14637.8	14254.2	13857.8	13374.2	12816.0	12228.8	11527.0
34°	14445.1	14361.5	14261.5	14081.5	13696.0	13363.3	12905.1	12339.7	11877.9	11314.3	10679.7
35°	13194.2	13072.4	12952.4	12816.0	12383.3	12076.1	11767.0	11274.3	10828.8	10297.9	9579.8
36°	11790.6	11743.3	11645.2	11285.2	11145.2	10727.0	10477.9	9912.5	9552.5	9032.5	8439.8
37°	10203.4	9925.2	10067.0	9865.2	9443.4	9312.5	9016.1	8530.7	8141.6	7592.5	7163.5
38°	8501.6	8319.8	8419.8	8216.2	7996.2	7694.4	7468.9	7114.4	6678.0	6247.1	5839.9
39°	6738.0	6590.7	6699.8	6561.7	6227.1	6101.7	5901.7	5630.8	5279.9	4943.5	4558.1
40°	5079.9	4890.8	5036.2	4839.9	4687.2	4481.7	4379.9	4130.8	3912.6	3710.8	3465.4
42.5°	2319.9	2299.9	2267.2	2196.3	2179.9	2181.8	2056.3	1974.5	1863.6	1734.5	1656.3
45°	1014.5	1040.0	1061.8	1021.8	1020.0	998.2	990.9	936.3	914.5	872.7	821.8
47.5°	500.0	509.1	503.6	514.5	505.4	490.9	487.3	480.0	458.2	456.4	432.7
50°	118.2	116.4	116.4	118.2	116.4	116.4	114.5	110.9	109.1	110.9	105.5
52.5°	38.2	40.0	38.2	36.4	38.2	40.0	38.2	38.2	38.2	38.2	38.2
55°	9.1	9.1	9.1	9.1	9.1	9.1	7.3	7.3	9.1	9.1	9.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	110.9	94.5	78.2	61.8	45.5	36.4	34.5	32.7
5°	167.3	134.5	89.1	52.7	30.9	21.8	16.4	14.5
7.5°	225.4	167.3	98.2	43.6	21.8	9.1	3.6	1.8
10°	323.6	198.2	101.8	34.5	10.9	0.0	0.0	0.0
12.5°	634.5	227.3	100.0	27.3	1.8	0.0	0.0	0.0
15°	1054.5	318.2	92.7	18.2	0.0	0.0	0.0	0.0
17.5°	1727.2	410.9	80.0	12.7	0.0	0.0	0.0	0.0
20°	2678.1	456.4	61.8	5.5	0.0	0.0	0.0	0.0
21°	3139.9	460.0	54.5	3.6	0.0	0.0	0.0	0.0
22°	3539.9	460.0	47.3	1.8	0.0	0.0	0.0	0.0
23°	3910.8	454.5	41.8	0.0	0.0	0.0	0.0	0.0
24°	4216.3	447.3	38.2	0.0	0.0	0.0	0.0	0.0
25°	4445.3	436.4	34.5	0.0	0.0	0.0	0.0	0.0
26°	4550.8	421.8	29.1	0.0	0.0	0.0	0.0	0.0
27°	4603.5	401.8	25.5	0.0	0.0	0.0	0.0	0.0
28°	4567.2	380.0	21.8	0.0	0.0	0.0	0.0	0.0
29°	4476.3	356.4	16.4	0.0	0.0	0.0	0.0	0.0
30°	4358.1	329.1	12.7	0.0	0.0	0.0	0.0	0.0
31°	4185.4	301.8	9.1	0.0	0.0	0.0	0.0	0.0
32°	3949.0	274.5	7.3	0.0	0.0	0.0	0.0	0.0
33°	3632.6	245.4	3.6	0.0	0.0	0.0	0.0	0.0
34°	3241.7	216.4	1.8	0.0	0.0	0.0	0.0	0.0
35°	2803.6	190.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	2427.2	163.6	0.0	0.0	0.0	0.0	0.0	0.0
37°	2049.0	130.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	1716.3	103.6	0.0	0.0	0.0	0.0	0.0	0.0
39°	1420.0	83.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	1176.3	56.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	650.9	38.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	394.5	21.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	229.1	7.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	87.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.3	0.0	0.0	1.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.8	3.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.8	3.6	1.8	0.0	0.0	0.0
65°	0.0	0.0	3.6	3.6	1.8	0.0	0.0	0.0
67.5°	0.0	0.0	3.6	5.5	1.8	0.0	0.0	0.0
70°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
72.5°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
75°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
77.5°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
80°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
85°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
87.5°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)