

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: P1318594

Luminaire Tested: LDSQA3D20R159830D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318594
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: LDSQA3D20R159830D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

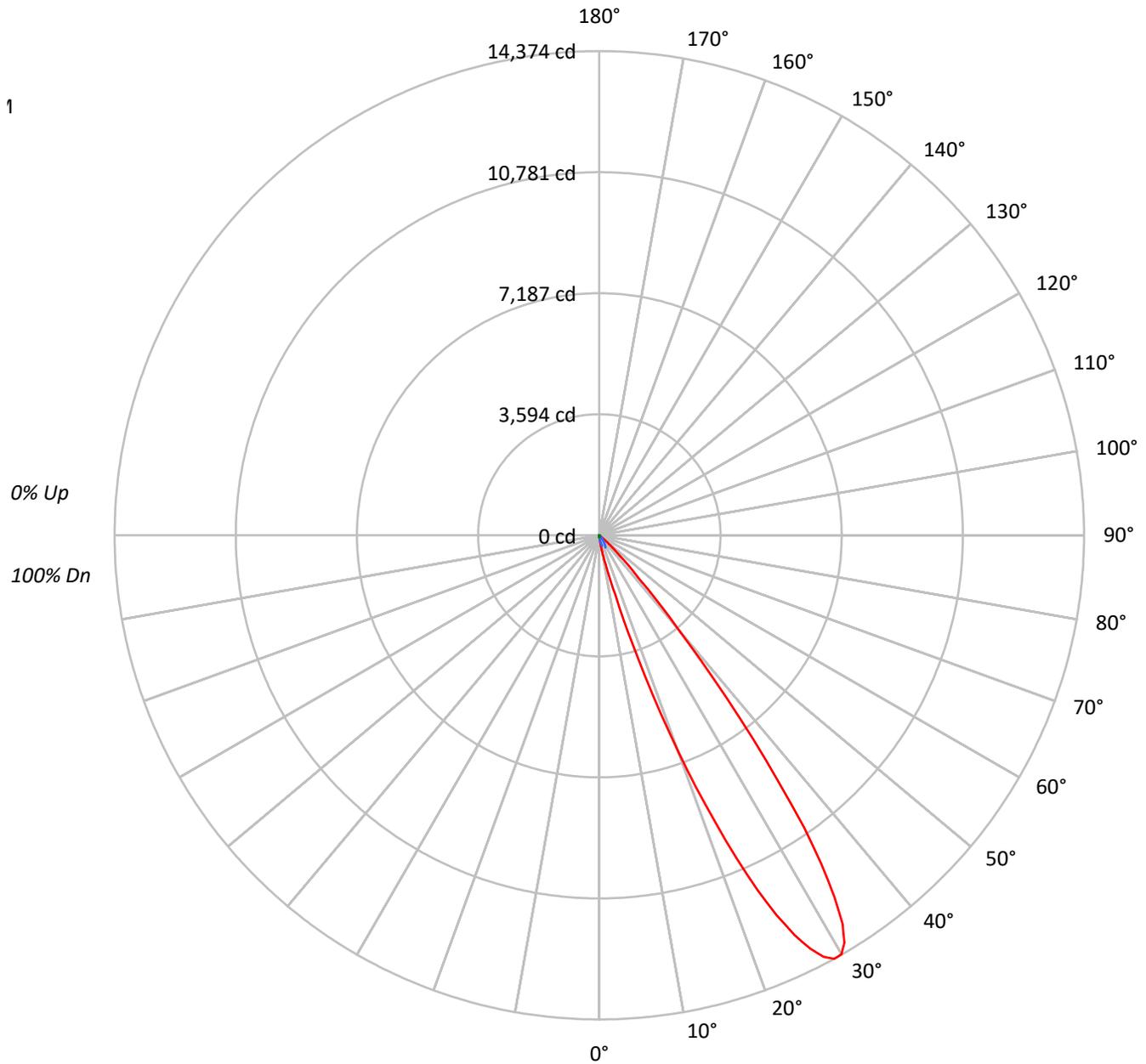
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1570.0 lumens
Efficiency: N/A
Efficacy: 57.3 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): 27.4
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	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°	8938	8938	8938	8938	8938
5°	19276	14263	8454	4495	3700
10°	85464	26966	6680	1871	1329
15°	323219	62351	4636	820	553
20°	1243048	87881	2804	275	275
25°	2363780	82415	1444	0	0
30°	2855491	66521	616	0	0
35°	2227083	45266	315	0	0
40°	812704	22325	337	0	337
45°	208682	6698	365	0	755
50°	35179	831	402	402	1232
55°	4594	0	931	1381	2282
60°	517	517	1584	2101	3169
65°	611	611	2486	3097	3749
70°	755	755	3072	3072	3827
75°	998	998	4059	3061	4059
80°	0	1488	4562	3075	4562
85°	0	2964	9090	2964	2964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 208682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.5
10°-20°	120.3	7.7
20°-30°	667.3	42.5
30°-40°	644.6	41.1
40°-50°	112.1	7.1
50°-60°	8.1	0.5
60°-70°	4.7	0.3
70°-80°	3.9	0.2
80°-90°	1.9	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°	794.7	50.6
0°-40°	1439.3	91.7
0°-60°	1559.5	99.3
0°-90°	1570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	112	82	49	26	21	22
15°	1813	350	26	5	3	808
25°	12439	434	8	0	0	5562
35°	10593	215	2	0	0	6092
45°	857	28	2	0	3	920
55°	15	0	3	5	8	30
65°	2	2	6	8	9	1
75°	2	2	6	5	6	1
85°	0	2	5	2	2	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°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	76.4	73.3	74.8	74.8	74.8	74.8	74.8	71.8	71.8	73.3	65.7
5°	111.5	111.5	110.0	111.5	111.5	110.0	106.9	105.4	105.4	102.3	82.5
7.5°	223.0	219.9	219.9	216.9	201.6	197.0	194.0	186.3	172.6	169.5	106.9
10°	488.7	490.2	479.5	465.8	464.3	441.4	433.7	420.0	394.0	368.1	154.2
12.5°	887.3	867.5	841.5	843.0	798.7	783.5	748.3	710.2	670.4	629.2	253.5
15°	1812.8	1756.3	1789.9	1707.4	1614.3	1508.9	1402.0	1267.6	1153.0	1030.9	349.7
17.5°	3818.0	3873.0	3779.9	3427.1	3210.2	2955.2	2596.3	2249.6	1953.3	1715.1	427.6
20°	6782.4	6863.3	6547.2	6240.2	5713.3	5139.1	4540.4	3862.3	3213.3	2651.2	479.5
21°	8020.9	7972.1	7842.3	7350.5	6742.7	6076.8	5343.7	4595.4	3808.9	3078.9	484.1
22°	9218.3	9241.2	8938.8	8424.1	7791.9	7054.2	6159.3	5235.3	4387.7	3427.1	476.5
23°	10411.0	10484.3	10084.2	9601.6	8805.9	7973.6	6938.1	5940.9	4893.2	3825.7	461.2
24°	11515.2	11464.8	11194.5	10586.7	9736.0	8761.6	7686.5	6476.9	5308.6	4166.2	449.0
25°	12439.2	12433.1	12008.5	11417.5	10444.6	9364.9	8179.8	6915.2	5664.4	4396.9	433.7
26°	13195.1	13071.4	12737.0	12016.1	11055.5	9916.2	8584.5	7234.4	5864.5	4512.9	418.5
27°	13778.5	13690.0	13241.0	12491.1	11487.7	10227.8	8844.1	7393.2	5956.1	4551.1	398.6
28°	14171.0	14074.8	13596.8	12824.0	11726.0	10423.2	8981.6	7460.4	5956.1	4514.4	380.3
29°	14374.2	14242.8	13766.3	12938.6	11780.9	10446.2	8948.0	7394.8	5863.0	4401.4	358.9
30°	14358.9	14195.5	13696.1	12834.7	11617.5	10258.3	8760.1	7158.1	5652.2	4233.4	334.5
31°	14111.5	13928.2	13370.8	12483.5	11280.0	9904.0	8405.8	6840.4	5363.6	4015.0	310.0
32°	13609.0	13376.9	12833.2	11948.9	10760.8	9374.0	7891.1	6350.2	4931.4	3695.9	284.1
33°	12790.4	12556.8	11973.4	11144.1	10058.2	8702.1	7208.5	5823.3	4439.6	3315.6	262.7
34°	11765.7	11551.9	11049.4	10214.0	9172.5	7851.4	6423.5	5094.8	3929.5	2938.4	239.8
35°	10592.8	10252.2	9797.1	9135.8	8120.2	6791.5	5575.9	4416.7	3404.2	2542.8	215.3
36°	9006.0	9067.1	8584.5	7775.1	6933.6	5892.0	4725.2	3682.1	2846.7	2167.1	194.0
37°	7599.4	7503.2	7196.2	6570.1	5837.0	4803.1	3960.1	3121.6	2394.7	1832.7	171.0
38°	6130.2	6151.6	5850.8	5369.7	4642.7	3949.4	3187.3	2564.2	2003.7	1559.3	149.7
39°	4798.5	4781.7	4700.8	4254.8	3596.6	3141.5	2582.5	2125.9	1669.2	1314.9	126.8
40°	3614.9	3642.4	3453.0	3184.2	2800.9	2426.7	2057.2	1695.2	1380.6	1108.8	99.3
42.5°	1757.8	1800.6	1675.4	1606.6	1437.1	1290.5	1088.9	888.8	756.0	653.6	44.3
45°	856.8	832.3	821.6	788.0	748.3	668.9	592.6	508.6	444.4	383.3	27.5
47.5°	438.3	426.1	426.1	412.3	398.6	372.6	334.5	307.0	276.4	238.2	10.7
50°	131.3	129.8	128.3	129.8	125.2	129.8	132.9	134.4	122.2	120.7	3.1
52.5°	51.9	53.5	51.9	56.5	56.5	55.0	56.5	55.0	53.5	47.3	0.0
55°	15.3	15.3	15.3	15.3	15.3	15.3	16.8	18.3	16.8	18.3	0.0
57.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5



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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	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1318594

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	61.1	53.5	44.3	36.7	33.6	32.1
5°	65.7	48.9	33.6	26.0	22.9	21.4
7.5°	70.3	44.3	26.0	18.3	13.7	12.2
10°	73.3	38.2	19.9	10.7	7.6	7.6
12.5°	73.3	30.5	13.7	6.1	4.6	4.6
15°	71.8	26.0	9.2	4.6	3.1	3.1
17.5°	70.3	19.9	6.1	3.1	1.5	3.1
20°	65.7	15.3	3.1	1.5	1.5	1.5
21°	64.1	13.7	3.1	1.5	1.5	1.5
22°	61.1	12.2	1.5	0.0	1.5	1.5
23°	58.0	9.2	1.5	0.0	0.0	0.0
24°	53.5	7.6	1.5	0.0	0.0	0.0
25°	50.4	7.6	1.5	0.0	0.0	0.0
26°	47.3	4.6	0.0	0.0	0.0	0.0
27°	42.8	3.1	0.0	0.0	0.0	0.0
28°	39.7	3.1	0.0	0.0	0.0	0.0
29°	35.1	3.1	0.0	0.0	0.0	0.0
30°	30.5	3.1	0.0	0.0	0.0	0.0
31°	24.4	1.5	0.0	0.0	0.0	0.0
32°	19.9	1.5	0.0	0.0	0.0	0.0
33°	13.7	1.5	0.0	0.0	0.0	0.0
34°	9.2	1.5	0.0	0.0	0.0	0.0
35°	7.6	1.5	0.0	0.0	0.0	0.0
36°	4.6	1.5	0.0	0.0	0.0	1.5
37°	4.6	1.5	0.0	0.0	0.0	1.5
38°	3.1	1.5	0.0	0.0	0.0	1.5
39°	1.5	1.5	0.0	0.0	0.0	1.5
40°	1.5	1.5	0.0	0.0	0.0	1.5
42.5°	0.0	1.5	0.0	0.0	1.5	3.1
45°	0.0	1.5	0.0	0.0	1.5	3.1
47.5°	0.0	1.5	0.0	0.0	3.1	3.1
50°	0.0	1.5	1.5	1.5	3.1	4.6
52.5°	0.0	3.1	1.5	3.1	4.6	6.1
55°	1.5	3.1	3.1	4.6	6.1	7.6
57.5°	1.5	4.6	4.6	6.1	7.6	7.6
60°	3.1	4.6	6.1	6.1	9.2	9.2
62.5°	3.1	6.1	6.1	6.1	9.2	9.2
65°	3.1	6.1	6.1	7.6	9.2	9.2
67.5°	3.1	6.1	6.1	6.1	7.6	9.2
70°	3.1	6.1	4.6	6.1	7.6	7.6
72.5°	3.1	6.1	4.6	4.6	6.1	7.6
75°	3.1	6.1	4.6	4.6	6.1	6.1
77.5°	3.1	4.6	4.6	3.1	4.6	4.6
80°	3.1	4.6	3.1	3.1	4.6	4.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.1	4.6	3.1	1.5	3.1	3.1
85°	3.1	4.6	3.1	1.5	1.5	1.5
87.5°	3.1	4.6	1.5	0.0	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)