

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: P1320346

Luminaire Tested: LDSQA3D20R159840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320346
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: LDSQA3D20R159840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

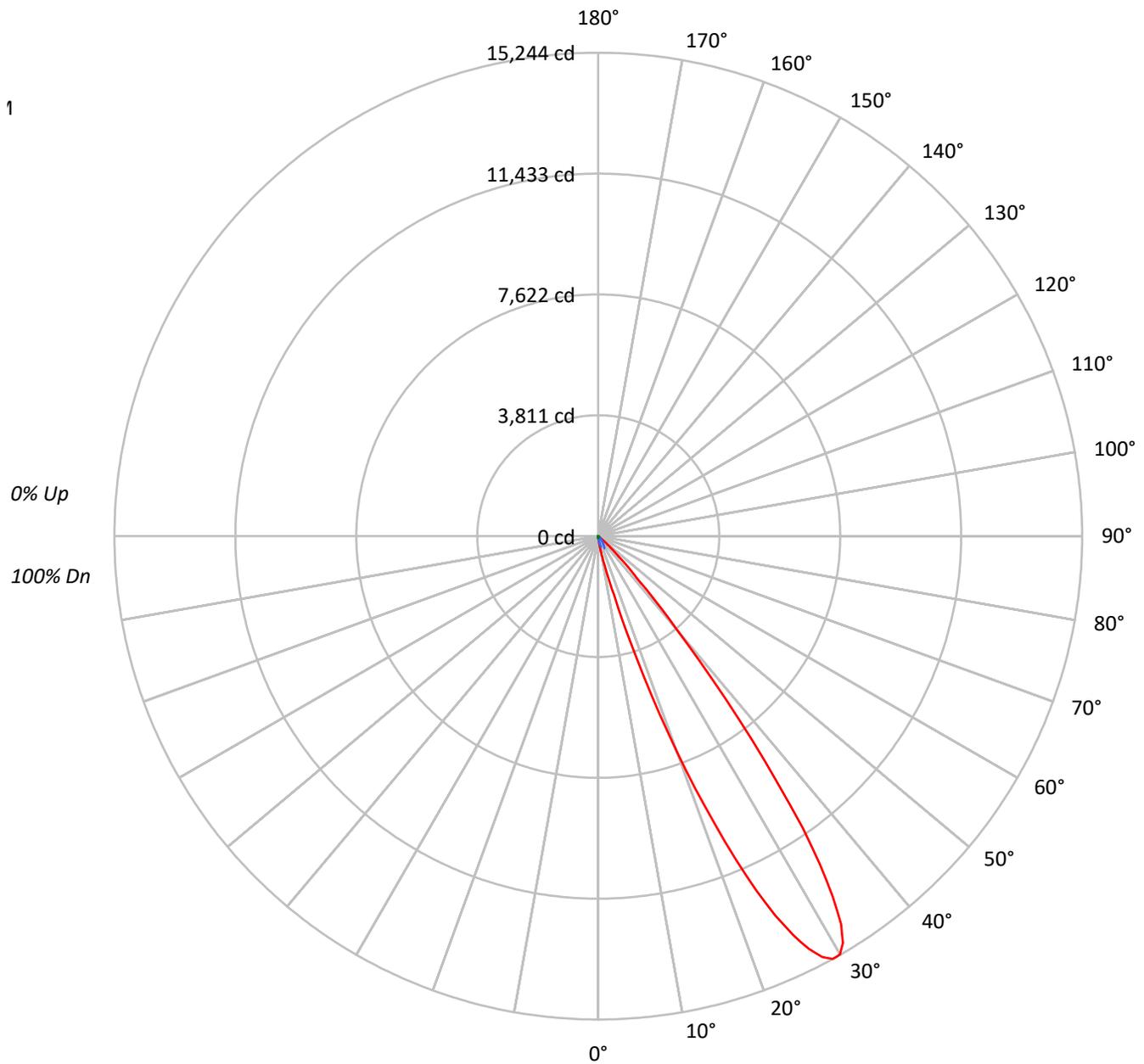
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1665.0 lumens
Efficiency: N/A
Efficacy: 60.8 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): 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	100	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9489	9489	9489	9489	9489
5°	20434	15127	8955	4754	3924
10°	90640	28610	7083	1976	1417
15°	342778	66131	4903	874	571
20°	1318264	93214	2969	293	293
25°	2506813	87412	1539	0	0
30°	3028265	70538	636	0	0
35°	2361830	48020	336	0	0
40°	861895	23674	360	0	360
45°	221298	7112	390	0	779
50°	37323	857	429	429	1313
55°	4864	0	961	1471	2432
60°	551	551	1688	2239	3341
65°	652	652	2649	3301	3953
70°	806	806	3273	3273	4079
75°	1065	1065	4325	3261	4325
80°	0	1587	4860	3174	4860
85°	0	3162	9683	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 221298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.5
10°-20°	127.6	7.7
20°-30°	707.6	42.5
30°-40°	683.6	41.1
40°-50°	118.9	7.1
50°-60°	8.5	0.5
60°-70°	5.0	0.3
70°-80°	4.1	0.2
80°-90°	2.0	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°	842.8	50.6
0°-40°	1526.4	91.7
0°-60°	1653.8	99.3
0°-90°	1665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	118	88	52	28	23	23
15°	1922	371	28	5	3	857
25°	13192	460	8	0	0	5898
35°	11234	228	2	0	0	6461
45°	909	29	2	0	3	976
55°	16	0	3	5	8	31
65°	2	2	6	8	10	2
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°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	81.0	77.7	79.4	79.4	79.4	79.4	79.4	76.1	76.1	77.7	69.6
5°	118.2	118.2	116.6	118.2	118.2	116.6	113.4	111.8	111.8	108.5	87.5
7.5°	236.5	233.2	233.2	230.0	213.8	208.9	205.7	197.6	183.0	179.8	113.4
10°	518.3	519.9	508.6	494.0	492.4	468.1	460.0	445.4	417.9	390.3	163.6
12.5°	941.0	919.9	892.4	894.0	847.1	830.9	793.6	753.1	711.0	667.3	268.9
15°	1922.5	1862.6	1898.2	1810.7	1711.9	1600.2	1486.8	1344.3	1222.8	1093.2	370.9
17.5°	4049.1	4107.4	4008.6	3634.4	3404.5	3134.0	2753.4	2385.7	2071.5	1818.8	453.5
20°	7192.8	7278.6	6943.3	6617.8	6059.0	5450.0	4815.1	4096.0	3407.7	2811.7	508.6
21°	8506.3	8454.4	8316.8	7795.3	7150.7	6444.5	5667.1	4873.5	4039.3	3265.2	513.4
22°	9776.1	9800.4	9479.7	8933.9	8263.3	7481.1	6532.0	5552.1	4653.2	3634.4	505.3
23°	11041.0	11118.7	10694.4	10182.6	9338.8	8456.1	7358.0	6300.3	5189.3	4057.2	489.1
24°	12212.0	12158.5	11871.9	11227.3	10325.1	9291.8	8151.6	6868.8	5629.8	4418.3	476.2
25°	13191.9	13185.4	12735.1	12108.3	11076.6	9931.5	8674.7	7333.7	6007.2	4662.9	460.0
26°	13993.6	13862.4	13507.7	12743.2	11724.5	10516.2	9103.9	7672.2	6219.4	4786.0	443.8
27°	14612.3	14518.3	14042.2	13246.9	12182.8	10846.6	9379.3	7840.6	6316.5	4826.5	422.7
28°	15028.5	14926.5	14419.5	13600.0	12435.5	11054.0	9525.0	7911.9	6316.5	4787.6	403.3
29°	15243.9	15104.6	14599.3	13721.5	12493.8	11078.2	9489.4	7842.2	6217.7	4667.8	380.6
30°	15227.7	15054.4	14524.8	13611.3	12320.5	10879.0	9290.2	7591.2	5994.2	4489.6	354.7
31°	14965.3	14771.0	14179.8	13238.8	11962.6	10503.3	8914.4	7254.3	5688.1	4258.0	328.8
32°	14432.5	14186.3	13609.7	12672.0	11411.9	9941.3	8368.6	6734.4	5229.8	3919.5	301.3
33°	13564.4	13316.6	12697.9	11818.4	10666.9	9228.6	7644.6	6175.6	4708.3	3516.2	278.6
34°	12477.6	12250.9	11718.0	10832.1	9727.5	8326.5	6812.1	5403.1	4167.3	3116.2	254.3
35°	11233.7	10872.6	10389.9	9688.6	8611.6	7202.5	5913.3	4684.0	3610.1	2696.7	228.4
36°	9550.9	9615.7	9103.9	8245.5	7353.1	6248.5	5011.1	3904.9	3019.0	2298.2	205.7
37°	8059.3	7957.2	7631.7	6967.6	6190.2	5093.7	4199.7	3310.5	2539.6	1943.6	181.4
38°	6501.2	6523.9	6204.8	5694.6	4923.7	4188.4	3380.2	2719.4	2124.9	1653.6	158.7
39°	5088.9	5071.1	4985.2	4512.3	3814.2	3331.6	2738.8	2254.5	1770.3	1394.5	134.4
40°	3833.7	3862.8	3662.0	3376.9	2970.4	2573.6	2181.6	1797.8	1464.1	1175.8	105.3
42.5°	1864.2	1909.5	1776.7	1703.8	1524.1	1368.6	1154.8	942.6	801.7	693.2	47.0
45°	908.6	882.7	871.4	835.7	793.6	709.4	628.4	539.3	471.3	406.5	29.2
47.5°	464.8	451.9	451.9	437.3	422.7	395.2	354.7	325.5	293.2	252.7	11.3
50°	139.3	137.7	136.0	137.7	132.8	137.7	140.9	142.5	129.6	128.0	3.2
52.5°	55.1	56.7	55.1	59.9	59.9	58.3	59.9	58.3	56.7	50.2	0.0
55°	16.2	16.2	16.2	16.2	16.2	16.2	17.8	19.4	17.8	19.4	0.0
57.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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: P1320346

CATALOG NUMBER: LDSQA3D20R159840D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	64.8	56.7	47.0	38.9	35.6	34.0
5°	69.6	51.8	35.6	27.5	24.3	22.7
7.5°	74.5	47.0	27.5	19.4	14.6	13.0
10°	77.7	40.5	21.1	11.3	8.1	8.1
12.5°	77.7	32.4	14.6	6.5	4.9	4.9
15°	76.1	27.5	9.7	4.9	3.2	3.2
17.5°	74.5	21.1	6.5	3.2	1.6	3.2
20°	69.6	16.2	3.2	1.6	1.6	1.6
21°	68.0	14.6	3.2	1.6	1.6	1.6
22°	64.8	13.0	1.6	0.0	1.6	1.6
23°	61.5	9.7	1.6	0.0	0.0	0.0
24°	56.7	8.1	1.6	0.0	0.0	0.0
25°	53.4	8.1	1.6	0.0	0.0	0.0
26°	50.2	4.9	0.0	0.0	0.0	0.0
27°	45.3	3.2	0.0	0.0	0.0	0.0
28°	42.1	3.2	0.0	0.0	0.0	0.0
29°	37.3	3.2	0.0	0.0	0.0	0.0
30°	32.4	3.2	0.0	0.0	0.0	0.0
31°	25.9	1.6	0.0	0.0	0.0	0.0
32°	21.1	1.6	0.0	0.0	0.0	0.0
33°	14.6	1.6	0.0	0.0	0.0	0.0
34°	9.7	1.6	0.0	0.0	0.0	0.0
35°	8.1	1.6	0.0	0.0	0.0	0.0
36°	4.9	1.6	0.0	0.0	0.0	1.6
37°	4.9	1.6	0.0	0.0	0.0	1.6
38°	3.2	1.6	0.0	0.0	0.0	1.6
39°	1.6	1.6	0.0	0.0	0.0	1.6
40°	1.6	1.6	0.0	0.0	0.0	1.6
42.5°	0.0	1.6	0.0	0.0	1.6	3.2
45°	0.0	1.6	0.0	0.0	1.6	3.2
47.5°	0.0	1.6	0.0	0.0	3.2	3.2
50°	0.0	1.6	1.6	1.6	3.2	4.9
52.5°	0.0	3.2	1.6	3.2	4.9	6.5
55°	1.6	3.2	3.2	4.9	6.5	8.1
57.5°	1.6	4.9	4.9	6.5	8.1	8.1
60°	3.2	4.9	6.5	6.5	9.7	9.7
62.5°	3.2	6.5	6.5	6.5	9.7	9.7
65°	3.2	6.5	6.5	8.1	9.7	9.7
67.5°	3.2	6.5	6.5	6.5	8.1	9.7
70°	3.2	6.5	4.9	6.5	8.1	8.1
72.5°	3.2	6.5	4.9	4.9	6.5	8.1
75°	3.2	6.5	4.9	4.9	6.5	6.5
77.5°	3.2	4.9	4.9	3.2	4.9	4.9
80°	3.2	4.9	3.2	3.2	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.2	4.9	3.2	1.6	3.2	3.2
85°	3.2	4.9	3.2	1.6	1.6	1.6
87.5°	3.2	4.9	1.6	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)