

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: P1320216

Luminaire Tested: LDSQA3D17R209840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R209840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

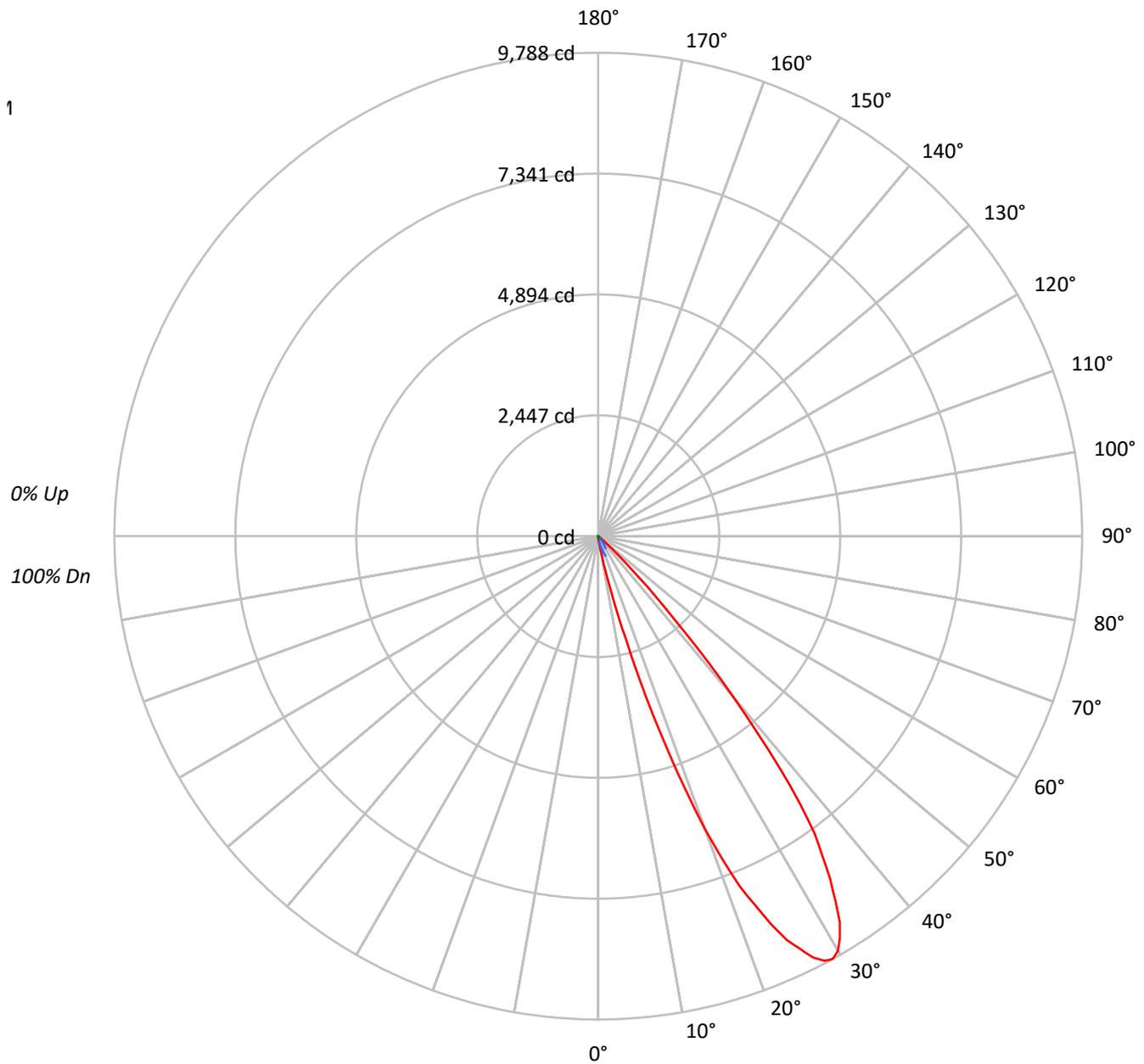
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1372.9 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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



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0% Up
100% Dn

— 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	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8146	8146	8146	8146	8146
5°	18740	14003	7745	4737	4097
10°	59039	24396	6313	2606	1959
15°	382449	45092	4671	891	214
20°	1154251	77159	3189	0	0
25°	1714211	77873	1900	0	0
30°	1927703	59202	736	0	0
35°	1663248	35363	526	0	0
40°	957759	12050	0	0	0
45°	233598	4847	292	0	292
50°	28026	1340	322	322	991
55°	3753	0	751	751	1501
60°	413	0	1274	1274	2136
65°	489	489	2038	2038	3056
70°	604	604	2518	2518	3122
75°	0	799	3327	2462	3327
80°	0	1190	3670	2479	3670
85°	0	2371	7311	2371	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 235132 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.5
10°-20°	127.2	9.3
20°-30°	554.6	40.4
30°-40°	558.5	40.7
40°-50°	112.0	8.2
50°-60°	5.6	0.4
60°-70°	3.7	0.3
70°-80°	3.3	0.2
80°-90°	1.6	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°	688.2	50.1
0°-40°	1246.7	90.8
0°-60°	1364.3	99.4
0°-90°	1372.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	108	81	45	27	24	17
15°	2145	253	26	5	1	840
25°	9021	410	10	0	0	4067
35°	7911	168	2	0	0	4707
45°	959	20	1	0	1	1044
55°	12	0	2	2	5	23
65°	1	1	5	5	8	1
75°	0	1	5	4	5	0
85°	0	1	4	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°	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
2.5°	71.0	71.0	69.8	69.8	68.5	69.8	67.3	68.5	68.5	67.3	61.0
5°	108.4	110.9	109.6	109.6	108.4	109.6	107.1	104.6	102.1	102.1	81.0
7.5°	178.1	176.9	174.4	175.6	171.9	169.4	166.9	165.7	158.2	154.5	105.9
10°	337.6	345.0	338.8	337.6	315.1	313.9	299.0	277.8	259.1	249.1	139.5
12.5°	929.2	969.1	906.8	876.9	859.5	792.2	763.6	690.1	619.1	565.5	176.9
15°	2145.0	2243.4	2117.6	2126.3	2021.7	1829.8	1661.7	1517.2	1346.5	1174.6	252.9
17.5°	4202.8	4123.1	4054.5	3938.7	3725.7	3444.2	3081.7	2714.2	2396.6	2064.0	352.5
20°	6297.9	6226.9	6071.2	5818.4	5546.8	5129.5	4698.5	4146.7	3612.3	3111.6	421.0
21°	7019.2	6995.5	6740.1	6584.4	6165.9	5767.3	5270.3	4679.9	4078.2	3485.3	432.2
22°	7663.2	7521.2	7384.1	7153.7	6737.6	6304.2	5751.1	5129.5	4476.8	3817.9	433.5
23°	8109.1	8044.3	7914.8	7654.4	7240.9	6731.4	6148.5	5498.2	4810.6	4053.3	429.7
24°	8602.4	8520.2	8330.8	8026.9	7609.6	7106.4	6441.2	5795.9	5048.6	4251.4	419.8
25°	9020.9	8892.6	8668.4	8340.8	7884.9	7365.4	6696.5	5987.8	5214.2	4384.6	409.8
26°	9292.4	9222.7	8934.9	8578.7	8090.4	7554.8	6872.2	6134.8	5321.4	4445.7	393.6
27°	9575.2	9446.9	9164.1	8754.3	8224.9	7678.1	6971.8	6205.8	5358.7	4448.2	373.7
28°	9737.1	9597.6	9277.5	8846.5	8312.1	7746.6	7029.1	6228.2	5351.3	4409.6	350.0
29°	9788.2	9612.6	9299.9	8861.5	8333.3	7751.6	7020.4	6195.8	5285.2	4314.9	322.6
30°	9693.5	9514.2	9217.7	8790.5	8266.0	7689.3	6939.4	6088.7	5168.1	4179.1	297.7
31°	9486.8	9334.8	9048.3	8619.8	8116.6	7543.6	6756.3	5913.0	4968.8	3997.2	269.1
32°	9214.0	9064.5	8783.0	8395.6	7883.6	7305.7	6506.0	5639.0	4734.7	3725.7	240.4
33°	8804.2	8718.2	8465.3	8095.4	7583.4	6965.6	6169.6	5311.4	4400.8	3424.3	215.5
34°	8389.4	8281.0	8104.1	7699.3	7148.7	6532.1	5731.2	4859.2	3993.5	3086.7	191.8
35°	7911.0	7846.3	7568.5	7244.6	6691.6	6061.3	5265.3	4419.5	3518.9	2710.5	168.2
36°	7447.7	7348.0	7031.6	6689.1	6152.2	5470.8	4684.8	3890.1	3109.1	2358.0	143.2
37°	6775.0	6623.0	6397.6	6036.4	5408.6	4828.1	4110.6	3373.2	2604.6	1976.8	115.8
38°	5984.0	5913.0	5600.4	5236.7	4717.2	4166.7	3456.6	2831.3	2148.7	1650.5	88.4
39°	5051.1	5049.8	4750.9	4488.0	3979.8	3484.0	2843.8	2298.2	1773.8	1329.1	68.5
40°	4260.1	4113.1	3928.7	3598.6	3208.8	2787.7	2227.2	1798.7	1376.4	1071.2	53.6
42.5°	2233.4	2221.0	2112.6	1864.7	1646.7	1398.8	1112.4	926.8	725.0	590.4	33.6
45°	959.1	965.4	890.6	853.3	768.6	665.2	561.8	468.4	401.1	325.1	19.9
47.5°	242.9	232.9	230.4	239.2	239.2	231.7	208.0	195.6	180.6	165.7	11.2
50°	104.6	102.1	99.7	99.7	93.4	89.7	83.5	76.0	69.8	62.3	5.0
52.5°	38.6	39.9	41.1	39.9	39.9	38.6	38.6	37.4	33.6	29.9	2.5
55°	12.5	12.5	12.5	13.7	13.7	14.9	14.9	14.9	14.9	13.7	0.0
57.5°	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	0.0
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	1.2	0.0	1.2	1.2	0.0	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2



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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	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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: P1320216

CATALOG NUMBER: LDSQA3D17R209840DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	47.3	47.3	47.3	47.3	47.3	47.3
2.5°	54.8	48.6	41.1	34.9	33.6	32.4
5°	61.0	44.8	33.6	27.4	24.9	23.7
7.5°	66.0	41.1	27.4	19.9	17.4	16.2
10°	68.5	36.1	22.4	14.9	11.2	11.2
12.5°	69.8	31.1	16.2	10.0	6.2	6.2
15°	68.5	26.2	12.5	5.0	1.2	1.2
17.5°	62.3	21.2	7.5	1.2	0.0	0.0
20°	53.6	17.4	5.0	0.0	0.0	0.0
21°	51.1	14.9	3.7	0.0	0.0	0.0
22°	47.3	13.7	2.5	0.0	0.0	0.0
23°	43.6	12.5	2.5	0.0	0.0	0.0
24°	39.9	11.2	1.2	0.0	0.0	0.0
25°	37.4	10.0	1.2	0.0	0.0	0.0
26°	34.9	8.7	1.2	0.0	0.0	0.0
27°	31.1	7.5	0.0	0.0	0.0	0.0
28°	28.6	6.2	0.0	0.0	0.0	0.0
29°	24.9	5.0	0.0	0.0	0.0	0.0
30°	21.2	3.7	0.0	0.0	0.0	0.0
31°	17.4	3.7	0.0	0.0	0.0	0.0
32°	14.9	2.5	0.0	0.0	0.0	0.0
33°	12.5	2.5	0.0	0.0	0.0	0.0
34°	11.2	2.5	0.0	0.0	0.0	0.0
35°	10.0	2.5	0.0	0.0	0.0	0.0
36°	7.5	1.2	0.0	0.0	0.0	0.0
37°	6.2	1.2	0.0	0.0	0.0	0.0
38°	5.0	1.2	0.0	0.0	0.0	0.0
39°	3.7	0.0	0.0	0.0	0.0	0.0
40°	3.7	0.0	0.0	0.0	0.0	0.0
42.5°	1.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.2	0.0	0.0	1.2	1.2
47.5°	0.0	1.2	0.0	0.0	1.2	2.5
50°	0.0	1.2	1.2	1.2	2.5	3.7
52.5°	0.0	2.5	1.2	1.2	3.7	3.7
55°	1.2	2.5	1.2	2.5	5.0	5.0
57.5°	1.2	2.5	2.5	3.7	5.0	6.2
60°	2.5	3.7	3.7	3.7	6.2	6.2
62.5°	2.5	3.7	5.0	5.0	6.2	7.5
65°	2.5	5.0	5.0	5.0	6.2	7.5
67.5°	3.7	5.0	5.0	5.0	6.2	7.5
70°	3.7	5.0	5.0	5.0	6.2	6.2
72.5°	3.7	5.0	3.7	5.0	5.0	6.2
75°	3.7	5.0	3.7	3.7	5.0	5.0
77.5°	2.5	3.7	3.7	2.5	3.7	3.7
80°	2.5	3.7	2.5	2.5	3.7	3.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.5	3.7	2.5	1.2	2.5	2.5
85°	2.5	3.7	2.5	1.2	1.2	1.2
87.5°	2.5	3.7	2.5	1.2	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)