

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: P1316701

Luminaire Tested: LDSQA3D17R209740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316701
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: LDSQA3D17R209740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

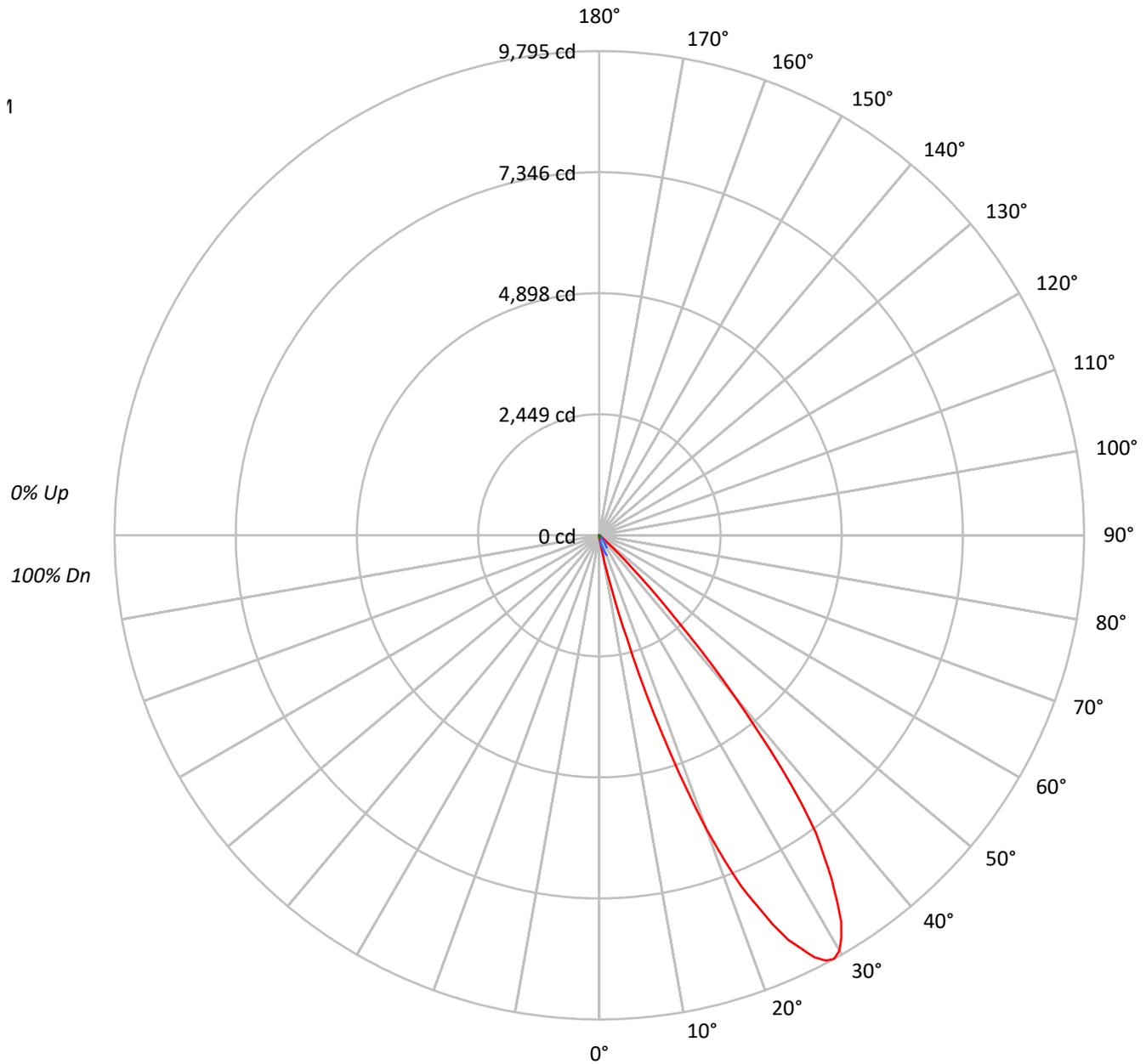
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1373.9 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41				41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8163	8163	8163	8163	8163
5°	18740	14003	7762	4737	4097
10°	59074	24413	6313	2623	1959
15°	382717	45109	4671	891	214
20°	1155094	77214	3207	0	0
25°	1715466	77930	1900	0	0
30°	1929115	59242	736	0	0
35°	1664468	35384	526	0	0
40°	958456	12050	0	0	0
45°	233768	4847	292	0	292
50°	28052	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: 235303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.5
10°-20°	127.3	9.3
20°-30°	555.0	40.4
30°-40°	558.9	40.7
40°-50°	112.1	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°	688.7	50.1
0°-40°	1247.6	90.8
0°-60°	1365.3	99.4
0°-90°	1373.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	108	81	45	27	24	17
15°	2146	253	26	5	1	841
25°	9028	410	10	0	0	4070
35°	7917	168	2	0	0	4710
45°	960	20	1	0	1	1045
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°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
2.5°	71.1	71.1	69.8	69.8	68.6	69.8	67.3	68.6	68.6	67.3	61.1
5°	108.4	110.9	109.7	109.7	108.4	109.7	107.2	104.7	102.2	102.2	81.0
7.5°	178.3	177.0	174.5	175.8	172.0	169.5	167.0	165.8	158.3	154.6	106.0
10°	337.8	345.3	339.1	337.8	315.4	314.1	299.2	278.0	259.3	249.3	139.6
12.5°	929.9	969.8	907.5	877.6	860.1	792.8	764.1	690.6	619.5	565.9	177.0
15°	2146.5	2245.0	2119.1	2127.8	2023.1	1831.2	1662.9	1518.3	1347.5	1175.5	253.0
17.5°	4205.8	4126.1	4057.5	3941.6	3728.4	3446.7	3083.9	2716.2	2398.3	2065.5	352.8
20°	6302.5	6231.5	6075.7	5822.6	5550.9	5133.3	4702.0	4149.7	3615.0	3113.9	421.3
21°	7024.3	7000.6	6745.0	6589.2	6170.4	5771.5	5274.1	4683.3	4081.2	3487.8	432.6
22°	7668.7	7526.6	7389.5	7158.9	6742.6	6308.8	5755.3	5133.3	4480.1	3820.7	433.8
23°	8115.0	8050.2	7920.5	7660.0	7246.2	6736.3	6152.9	5502.2	4814.2	4056.3	430.1
24°	8608.6	8526.4	8336.9	8032.7	7615.1	7111.5	6445.9	5800.2	5052.2	4254.5	420.1
25°	9027.5	8899.1	8674.7	8346.9	7890.6	7370.8	6701.4	5992.1	5218.0	4387.8	410.1
26°	9299.2	9229.4	8941.5	8584.9	8096.3	7560.3	6877.2	6139.2	5325.2	4448.9	393.9
27°	9582.2	9453.8	9170.8	8760.7	8230.9	7683.7	6976.9	6210.3	5362.6	4451.4	374.0
28°	9744.2	9604.6	9284.3	8853.0	8318.2	7752.3	7034.2	6232.7	5355.2	4412.8	350.3
29°	9795.3	9619.6	9306.7	8867.9	8339.4	7757.2	7025.5	6200.3	5289.1	4318.0	322.9
30°	9700.6	9521.1	9224.4	8796.9	8272.1	7694.9	6944.5	6093.1	5171.9	4182.2	297.9
31°	9493.7	9341.6	9054.9	8626.1	8122.5	7549.1	6761.3	5917.3	4972.5	4000.2	269.3
32°	9220.7	9071.1	8789.4	8401.7	7889.4	7311.0	6510.7	5643.1	4738.1	3728.4	240.6
33°	8810.6	8724.6	8471.5	8101.3	7589.0	6970.7	6174.1	5315.3	4404.0	3426.7	215.7
34°	8395.5	8287.0	8110.0	7704.9	7153.9	6536.9	5735.3	4862.8	3996.4	3088.9	192.0
35°	7916.8	7852.0	7574.0	7249.9	6696.4	6065.7	5269.1	4422.7	3521.5	2712.5	168.3
36°	7453.1	7353.4	7036.7	6693.9	6156.7	5474.8	4688.3	3893.0	3111.4	2359.7	143.4
37°	6780.0	6627.9	6402.2	6040.8	5412.5	4831.6	4113.6	3375.6	2606.5	1978.3	115.9
38°	5988.4	5917.3	5604.5	5240.5	4720.7	4169.7	3459.2	2833.4	2150.3	1651.7	88.5
39°	5054.7	5053.5	4754.3	4491.3	3982.7	3486.6	2845.9	2299.9	1775.1	1330.1	68.6
40°	4263.2	4116.1	3931.6	3601.3	3211.1	2789.8	2228.8	1800.0	1377.4	1072.0	53.6
42.5°	2235.1	2222.6	2114.1	1866.1	1647.9	1399.9	1113.2	927.4	725.5	590.9	33.7
45°	959.8	966.1	891.3	853.9	769.1	665.7	562.2	468.7	401.4	325.3	19.9
47.5°	243.1	233.1	230.6	239.3	239.3	231.9	208.2	195.7	180.7	165.8	11.2
50°	104.7	102.2	99.7	99.7	93.5	89.8	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	33.7	29.9	2.5
55°	12.5	12.5	12.5	13.7	13.7	15.0	15.0	15.0	15.0	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: P1316701

CATALOG NUMBER: LDSQA3D17R209740DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	47.4	47.4	47.4	47.4	47.4	47.4
2.5°	54.8	48.6	41.1	34.9	33.7	32.4
5°	61.1	44.9	33.7	27.4	24.9	23.7
7.5°	66.1	41.1	27.4	19.9	17.5	16.2
10°	68.6	36.1	22.4	15.0	11.2	11.2
12.5°	69.8	31.2	16.2	10.0	6.2	6.2
15°	68.6	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	17.5	5.0	0.0	0.0	0.0
21°	51.1	15.0	3.7	0.0	0.0	0.0
22°	47.4	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°	31.2	7.5	0.0	0.0	0.0	0.0
28°	28.7	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°	17.5	3.7	0.0	0.0	0.0	0.0
32°	15.0	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)