

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: P1317442

Luminaire Tested: LDSQA3D13R209827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317442
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: LDSQA3D13R209827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

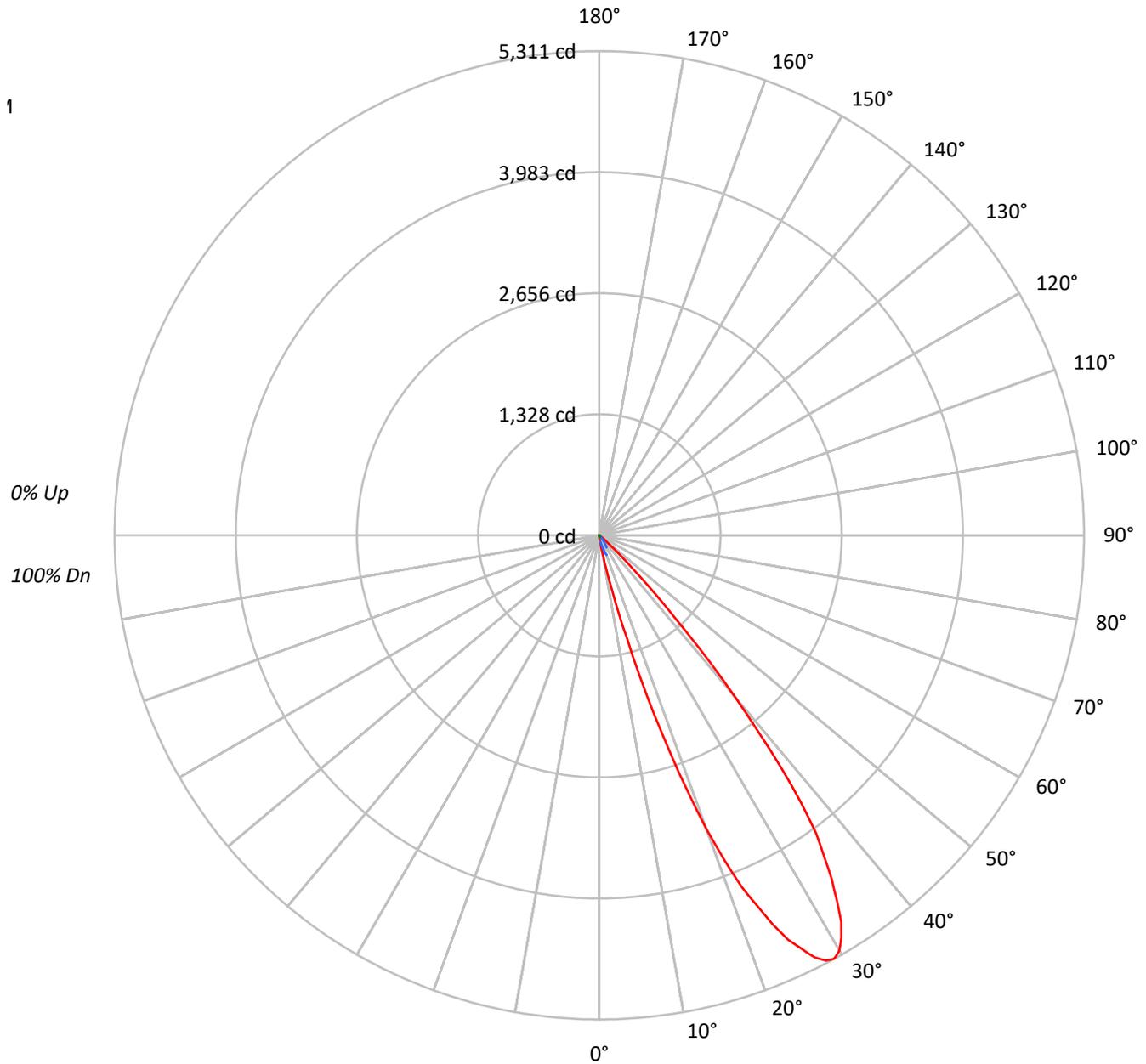
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 745.1 lumens
Efficiency: N/A
Efficacy: 51.4 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): 14.5
Input Voltage (V): NR
Input Current (Ain): 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	76	71	79	74	71	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4426	4426	4426	4426	4426
5°	10165	7589	4201	2576	2213
10°	32038	13238	3428	1417	1067
15°	207521	24462	2532	481	125
20°	626307	41878	1741	0	0
25°	930142	42262	1026	0	0
30°	1045993	32117	398	0	0
35°	902498	19174	294	0	0
40°	519673	6542	0	0	0
45°	126748	2630	170	0	170
50°	15218	723	188	188	536
55°	2042	0	420	420	811
60°	241	0	689	689	1171
65°	285	285	1100	1100	1671
70°	352	352	1360	1360	1712
75°	0	466	1797	1331	1797
80°	0	694	1984	1389	1984
85°	0	1383	3952	1383	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 127577 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.5
10°-20°	69.0	9.3
20°-30°	300.9	40.4
30°-40°	303.1	40.7
40°-50°	60.8	8.2
50°-60°	3.1	0.4
60°-70°	2.0	0.3
70°-80°	1.8	0.2
80°-90°	0.9	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°	373.4	50.1
0°-40°	676.5	90.8
0°-60°	740.3	99.4
0°-90°	745.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	745.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	59	44	24	15	13	9
15°	1164	137	14	3	1	456
25°	4895	222	5	0	0	2207
35°	4293	91	1	0	0	2554
45°	520	11	1	0	1	567
55°	7	0	1	1	3	13
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	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°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	38.5	38.5	37.8	37.8	37.2	37.8	36.5	37.2	37.2	36.5	33.1
5°	58.8	60.2	59.5	59.5	58.8	59.5	58.1	56.8	55.4	55.4	43.9
7.5°	96.7	96.0	94.6	95.3	93.3	91.9	90.6	89.9	85.8	83.8	57.5
10°	183.2	187.2	183.8	183.2	171.0	170.3	162.2	150.7	140.6	135.2	75.7
12.5°	504.2	525.8	492.0	475.8	466.4	429.9	414.3	374.4	335.9	306.9	96.0
15°	1163.9	1217.3	1149.0	1153.7	1097.0	992.9	901.6	823.2	730.6	637.4	137.2
17.5°	2280.5	2237.2	2200.0	2137.2	2021.6	1868.8	1672.2	1472.8	1300.4	1120.0	191.3
20°	3417.3	3378.8	3294.3	3157.1	3009.7	2783.3	2549.5	2250.0	1960.1	1688.4	228.5
21°	3808.6	3795.8	3657.2	3572.8	3345.7	3129.4	2859.7	2539.3	2212.9	1891.1	234.5
22°	4158.1	4081.0	4006.7	3881.6	3655.9	3420.7	3120.6	2783.3	2429.2	2071.6	235.2
23°	4400.1	4364.9	4294.6	4153.4	3929.0	3652.5	3336.2	2983.4	2610.3	2199.4	233.2
24°	4667.7	4623.1	4520.4	4355.4	4129.0	3856.0	3495.0	3144.9	2739.4	2306.8	227.8
25°	4894.8	4825.2	4703.5	4525.8	4278.4	3996.5	3633.6	3249.0	2829.3	2379.1	222.4
26°	5042.2	5004.3	4848.2	4654.9	4389.9	4099.3	3728.9	3328.8	2887.4	2412.3	213.6
27°	5195.6	5126.0	4972.5	4750.2	4462.9	4166.2	3783.0	3367.3	2907.7	2413.6	202.8
28°	5283.4	5207.7	5034.0	4800.2	4510.2	4203.4	3814.1	3379.5	2903.6	2392.7	189.9
29°	5311.2	5215.9	5046.2	4808.3	4521.7	4206.1	3809.3	3361.9	2867.8	2341.3	175.1
30°	5259.8	5162.5	5001.6	4769.8	4485.2	4172.3	3765.4	3303.8	2804.3	2267.6	161.5
31°	5147.6	5065.1	4909.7	4677.2	4404.1	4093.2	3666.0	3208.5	2696.1	2168.9	146.0
32°	4999.6	4918.5	4765.7	4555.5	4277.7	3964.1	3530.2	3059.8	2569.1	2021.6	130.4
33°	4777.2	4730.6	4593.4	4392.6	4114.8	3779.6	3347.7	2882.0	2387.9	1858.0	116.9
34°	4552.1	4493.3	4397.4	4177.7	3878.9	3544.4	3109.8	2636.7	2166.9	1674.9	104.1
35°	4292.6	4257.4	4106.7	3931.0	3630.9	3288.9	2857.0	2398.1	1909.4	1470.7	91.2
36°	4041.2	3987.1	3815.4	3629.5	3338.2	2968.5	2542.0	2110.8	1687.0	1279.5	77.7
37°	3676.2	3593.7	3471.4	3275.4	2934.7	2619.8	2230.4	1830.3	1413.3	1072.6	62.9
38°	3247.0	3208.5	3038.8	2841.4	2559.6	2260.9	1875.6	1536.3	1165.9	895.6	48.0
39°	2740.7	2740.1	2577.9	2435.2	2159.5	1890.5	1543.1	1247.0	962.5	721.2	37.2
40°	2311.5	2231.8	2131.8	1952.7	1741.1	1512.6	1208.5	976.0	746.9	581.3	29.1
42.5°	1211.9	1205.1	1146.3	1011.8	893.5	759.0	603.6	502.9	393.4	320.4	18.2
45°	520.4	523.8	483.3	463.0	417.0	360.9	304.8	254.1	217.6	176.4	10.8
47.5°	131.8	126.4	125.0	129.8	129.8	125.7	112.9	106.1	98.0	89.9	6.1
50°	56.8	55.4	54.1	54.1	50.7	48.7	45.3	41.2	37.8	33.8	2.7
52.5°	21.0	21.6	22.3	21.6	21.6	21.0	21.0	20.3	18.2	16.2	1.4
55°	6.8	6.8	6.8	7.4	7.4	8.1	8.1	8.1	8.1	7.4	0.0
57.5°	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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: P1317442

CATALOG NUMBER: LDSQA3D13R209827DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	29.7	26.4	22.3	18.9	18.2	17.6
5°	33.1	24.3	18.2	14.9	13.5	12.8
7.5°	35.8	22.3	14.9	10.8	9.5	8.8
10°	37.2	19.6	12.2	8.1	6.1	6.1
12.5°	37.8	16.9	8.8	5.4	3.4	3.4
15°	37.2	14.2	6.8	2.7	0.7	0.7
17.5°	33.8	11.5	4.1	0.7	0.0	0.0
20°	29.1	9.5	2.7	0.0	0.0	0.0
21°	27.7	8.1	2.0	0.0	0.0	0.0
22°	25.7	7.4	1.4	0.0	0.0	0.0
23°	23.7	6.8	1.4	0.0	0.0	0.0
24°	21.6	6.1	0.7	0.0	0.0	0.0
25°	20.3	5.4	0.7	0.0	0.0	0.0
26°	18.9	4.7	0.7	0.0	0.0	0.0
27°	16.9	4.1	0.0	0.0	0.0	0.0
28°	15.5	3.4	0.0	0.0	0.0	0.0
29°	13.5	2.7	0.0	0.0	0.0	0.0
30°	11.5	2.0	0.0	0.0	0.0	0.0
31°	9.5	2.0	0.0	0.0	0.0	0.0
32°	8.1	1.4	0.0	0.0	0.0	0.0
33°	6.8	1.4	0.0	0.0	0.0	0.0
34°	6.1	1.4	0.0	0.0	0.0	0.0
35°	5.4	1.4	0.0	0.0	0.0	0.0
36°	4.1	0.7	0.0	0.0	0.0	0.0
37°	3.4	0.7	0.0	0.0	0.0	0.0
38°	2.7	0.7	0.0	0.0	0.0	0.0
39°	2.0	0.0	0.0	0.0	0.0	0.0
40°	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.7	0.0	0.0	0.7	0.7
47.5°	0.0	0.7	0.0	0.0	0.7	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.0
52.5°	0.0	1.4	0.7	0.7	2.0	2.0
55°	0.7	1.4	0.7	1.4	2.7	2.7
57.5°	0.7	1.4	1.4	2.0	2.7	3.4
60°	1.4	2.0	2.0	2.0	3.4	3.4
62.5°	1.4	2.0	2.7	2.7	3.4	4.1
65°	1.4	2.7	2.7	2.7	3.4	4.1
67.5°	2.0	2.7	2.7	2.7	3.4	4.1
70°	2.0	2.7	2.7	2.7	3.4	3.4
72.5°	2.0	2.7	2.0	2.7	2.7	3.4
75°	2.0	2.7	2.0	2.0	2.7	2.7
77.5°	1.4	2.0	2.0	1.4	2.0	2.0
80°	1.4	2.0	1.4	1.4	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.4	2.0	1.4	0.7	1.4	1.4
85°	1.4	2.0	1.4	0.7	0.7	0.7
87.5°	1.4	2.0	1.4	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)