

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: P1309577

Luminaire Tested: LDSQA3D20R409030D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R409030D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

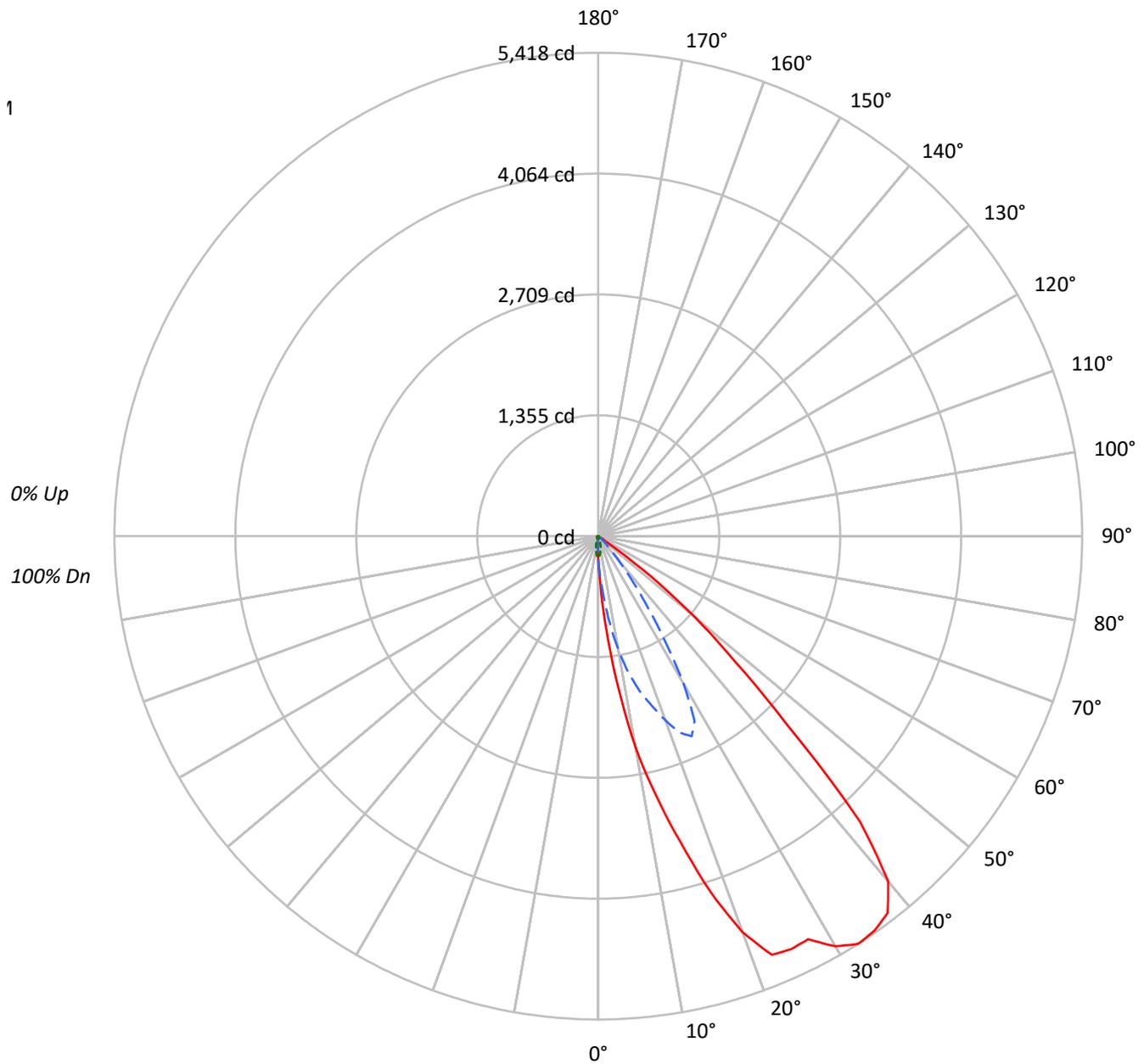
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1999.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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

TEST NUMBER: P1309577  
CATALOG NUMBER: LDSQA3D20R409030D010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



TEST NUMBER: P1309577

CATALOG NUMBER: LDSQA3D20R409030D010 3LSQCA30R 1MW

**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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	40731	40731	40731	40731	40731
5°	183720	117127	36512	14021	10217
10°	421337	226329	25707	5019	3847
15°	632298	321115	15958	2710	2407
20°	865775	402546	9292	1540	1851
25°	970542	470335	4808	1292	1596
30°	1055678	379674	2009	1014	1670
35°	1134545	194308	715	1430	2123
40°	1134962	77496	382	1529	2653
45°	724639	25915	828	2460	3702
50°	376175	3162	1366	3162	4528
55°	32458	510	1531	4054	5585
60°	1171	586	1757	4650	6407
65°	1386	693	2771	4809	6887
70°	856	856	3424	5086	6798
75°	1131	1131	3394	5590	7852
80°	1686	1686	5058	5058	6744
85°	0	3359	10078	6719	6719

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 724639 cd/sqm



TEST NUMBER: P1309577

CATALOG NUMBER: LDSQA3D20R409030D010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	2.3
10°-20°	270.6	13.5
20°-30°	592.6	29.6
30°-40°	675.1	33.8
40°-50°	356.2	17.8
50°-60°	42.0	2.1
60°-70°	7.6	0.4
70°-80°	6.2	0.3
80°-90°	2.8	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°	909.2	45.5
0°-40°	1584.2	79.3
0°-60°	1982.4	99.2
0°-90°	1999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	236	236	236	236	236	
5°	1063	678	211	81	59	143
15°	3546	1801	90	15	14	1045
25°	5107	2475	25	7	8	2353
35°	5396	924	3	7	10	3345
45°	2975	106	3	10	15	2399
55°	108	2	5	14	19	336
65°	3	2	7	12	17	3
75°	2	2	5	8	12	2
85°	0	2	5	3	3	0
90°	0	0	0	0	0	



TEST NUMBER: P1309577

CATALOG NUMBER: LDSQA3D20R409030D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5	236.5
2.5°	527.1	527.1	525.4	510.2	508.5	506.9	479.8	473.1	441.0	419.0	319.3
5°	1062.7	1039.1	1037.4	1010.3	964.7	903.9	865.0	802.5	741.7	677.5	393.7
7.5°	1692.9	1713.2	1657.4	1628.7	1527.3	1454.7	1343.2	1245.2	1108.3	979.9	454.5
10°	2409.3	2373.8	2318.0	2262.3	2152.4	2022.4	1856.8	1682.8	1485.1	1294.2	488.3
12.5°	2968.5	2922.9	2889.1	2813.0	2704.9	2537.7	2340.0	2106.8	1845.0	1569.6	486.6
15°	3546.3	3500.7	3424.7	3357.1	3196.6	3009.0	2794.5	2487.0	2166.0	1801.0	451.1
17.5°	4181.6	4122.4	4038.0	3934.9	3779.5	3571.6	3299.6	2924.6	2470.1	1990.3	386.9
20°	4723.9	4688.4	4603.9	4482.3	4330.2	4127.5	3813.2	3397.6	2843.5	2196.4	307.5
22.5°	5078.7	5046.6	4989.2	4882.7	4767.8	4551.6	4264.3	3808.2	3156.0	2383.9	233.2
25°	5107.4	5093.9	5078.7	5043.2	4973.9	4820.2	4539.7	4048.1	3350.3	2475.1	172.3
27.5°	5092.2	5087.1	5083.8	5065.2	5019.6	4867.5	4580.3	4083.6	3325.0	2333.2	126.7
30°	5308.5	5293.3	5284.8	5224.0	5104.0	4869.2	4494.1	3892.7	2955.0	1909.2	91.2
32.5°	5418.3	5414.9	5406.5	5347.3	5178.4	4872.6	4348.8	3431.4	2343.4	1378.6	62.5
35°	5396.3	5379.4	5349.0	5239.2	5004.4	4620.8	3879.1	2740.4	1691.2	924.2	40.5
37.5°	5322.0	5283.1	5224.0	5026.3	4713.8	4190.0	3145.9	2017.3	1150.6	598.1	23.7
40°	5048.3	4995.9	4903.0	4661.4	4250.8	3453.4	2326.5	1363.4	755.2	344.7	6.8
42.5°	4340.4	4272.8	4205.2	3934.9	3465.2	2574.8	1530.7	843.1	430.8	189.2	1.7
45°	2975.2	2890.8	2797.8	2601.9	2225.1	1559.4	910.7	474.8	223.0	106.4	1.7
47.5°	2066.3	2027.4	1865.2	1615.2	1238.4	826.2	471.4	233.2	118.3	49.0	1.7
50°	1404.0	1360.1	1170.8	929.2	658.9	395.3	216.3	116.6	52.4	11.8	1.7
52.5°	736.6	682.6	562.6	429.1	266.9	165.6	94.6	50.7	15.2	1.7	1.7
55°	108.1	99.7	81.1	65.9	59.1	45.6	27.0	11.8	1.7	1.7	3.4
57.5°	3.4	3.4	3.4	3.4	5.1	5.1	3.4	1.7	1.7	1.7	3.4
60°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4
62.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4
65°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4
67.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4	5.1
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.1
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.1
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	5.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4
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: P1309577  
 CATALOG NUMBER: LDSQA3D20R409030D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	236.5	236.5	236.5	236.5	236.5
2.5°	233.2	172.3	133.5	114.9	113.2
5°	211.2	123.3	81.1	62.5	59.1
7.5°	179.1	86.2	47.3	33.8	32.1
10°	147.0	59.1	28.7	23.7	22.0
12.5°	116.6	38.9	20.3	18.6	16.9
15°	89.5	25.3	15.2	13.5	13.5
17.5°	67.6	16.9	11.8	11.8	11.8
20°	50.7	11.8	8.4	10.1	10.1
22.5°	35.5	8.4	6.8	8.4	8.4
25°	25.3	6.8	6.8	8.4	8.4
27.5°	16.9	5.1	5.1	6.8	8.4
30°	10.1	3.4	5.1	6.8	8.4
32.5°	5.1	3.4	5.1	8.4	8.4
35°	3.4	5.1	6.8	8.4	10.1
37.5°	1.7	5.1	6.8	10.1	10.1
40°	1.7	5.1	6.8	10.1	11.8
42.5°	3.4	6.8	8.4	11.8	13.5
45°	3.4	6.8	10.1	13.5	15.2
47.5°	3.4	6.8	11.8	15.2	15.2
50°	5.1	8.4	11.8	15.2	16.9
52.5°	5.1	8.4	11.8	16.9	18.6
55°	5.1	8.4	13.5	16.9	18.6
57.5°	5.1	10.1	13.5	16.9	18.6
60°	5.1	8.4	13.5	16.9	18.6
62.5°	6.8	8.4	11.8	16.9	16.9
65°	6.8	8.4	11.8	16.9	16.9
67.5°	6.8	8.4	11.8	15.2	15.2
70°	6.8	8.4	10.1	13.5	13.5
72.5°	6.8	8.4	10.1	11.8	13.5
75°	5.1	6.8	8.4	10.1	11.8
77.5°	5.1	6.8	6.8	10.1	10.1
80°	5.1	5.1	5.1	6.8	6.8
82.5°	5.1	5.1	3.4	5.1	5.1
85°	5.1	3.4	3.4	3.4	3.4
87.5°	3.4	3.4	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)