

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: P1313974

Luminaire Tested: LDSQA3D20R309727D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

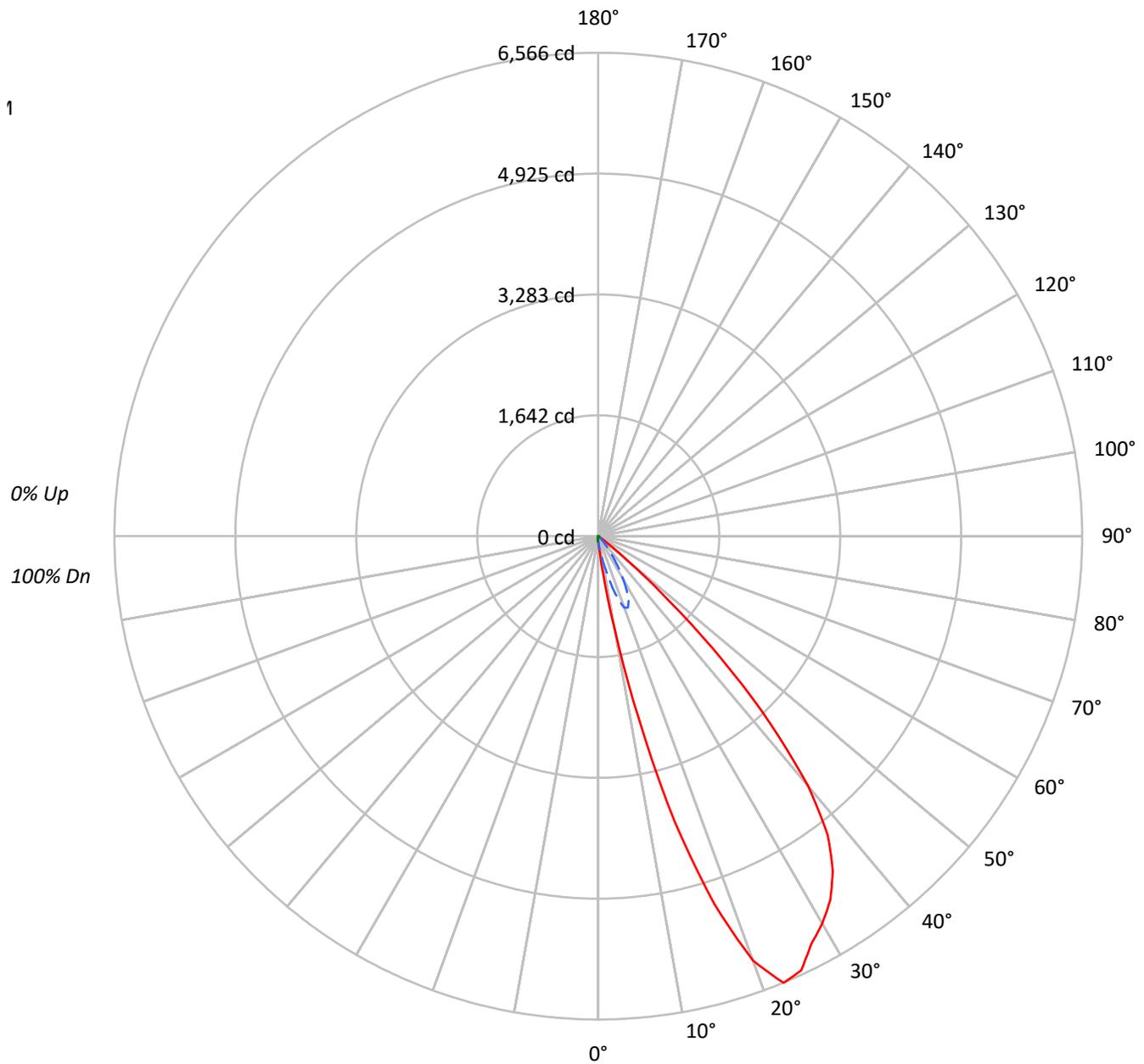
Test Method: LM-79-2019  
Report Number: P1313974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309727D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1547.9 lumens  
Efficiency: N/A  
Efficacy: 53.7 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
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

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

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

	0°	45°	90°	135°	180°
0°	12676	12676	12676	12676	12676
5°	38155	25431	11981	5377	4408
10°	220908	53933	9409	2466	1731
15°	718541	122312	6561	499	250
20°	1124359	189250	4142	0	0
25°	1236998	184934	2147	0	0
30°	1208188	133339	835	0	0
35°	1166082	75835	294	0	0
40°	994427	32127	0	0	0
45°	583618	12056	341	0	341
50°	141735	2277	375	375	1125
55°	12311	0	841	1261	1711
60°	482	0	964	1447	2446
65°	571	571	1712	1712	2893
70°	705	705	2115	2115	2870
75°	0	932	2795	2795	2795
80°	0	1389	4166	2777	2777
85°	0	2766	8299	2766	2766

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 583618 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.5	0.9
10°-20°	212.8	13.7
20°-30°	540.7	34.9
30°-40°	538.9	34.8
40°-50°	218.3	14.1
50°-60°	15.1	1.0
60°-70°	3.4	0.2
70°-80°	3.4	0.2
80°-90°	1.9	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°	766.9	49.5
0°-40°	1305.8	84.4
0°-60°	1539.2	99.4
0°-90°	1547.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1547.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	221	147	69	31	26	51
15°	4030	686	37	3	1	1173
25°	6510	973	11	0	0	2939
35°	5546	361	1	0	0	3400
45°	2396	50	1	0	1	1828
55°	41	0	3	4	6	107
65°	1	1	4	4	7	1
75°	0	1	4	4	4	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2.5°	121.6	123.1	123.1	120.2	118.8	118.8	114.6	113.2	108.9	104.7	90.5
5°	220.7	216.4	210.8	210.8	198.0	191.0	181.1	169.7	161.3	147.1	104.7
7.5°	500.7	466.8	456.9	444.2	396.1	357.9	314.0	275.8	240.5	210.8	116.0
10°	1263.2	1196.7	1141.5	1029.8	889.7	755.4	630.9	486.6	387.6	308.4	124.5
12.5°	2544.7	2455.6	2349.5	2145.8	1884.1	1548.9	1251.8	935.0	656.3	454.1	127.3
15°	4030.0	3878.6	3713.1	3454.3	3025.7	2544.7	2008.6	1503.6	1053.8	686.0	124.5
17.5°	5240.8	5181.4	4936.7	4583.0	4058.3	3438.7	2778.1	2087.8	1421.6	898.2	116.0
20°	6134.8	6093.7	5798.1	5421.8	4830.6	4120.5	3281.7	2452.8	1677.6	1032.6	103.3
22.5°	6566.2	6559.1	6345.5	5960.8	5334.1	4529.3	3605.6	2663.5	1756.8	1051.0	86.3
25°	6509.6	6535.1	6413.4	6127.7	5526.5	4697.6	3701.8	2663.5	1698.8	973.2	72.1
27.5°	6252.2	6269.1	6192.8	5973.5	5413.4	4576.0	3567.4	2492.4	1530.5	836.0	59.4
30°	6075.4	6082.4	5987.7	5752.8	5158.7	4298.7	3250.6	2175.5	1275.9	670.5	43.9
32.5°	5860.3	5858.9	5748.6	5479.8	4824.9	3909.7	2848.8	1797.9	980.3	509.2	25.5
35°	5546.3	5511.0	5361.0	5051.2	4327.0	3386.4	2335.4	1369.3	705.8	360.7	15.6
37.5°	5114.9	5023.0	4810.8	4396.3	3628.2	2655.0	1731.4	961.9	482.4	239.1	9.9
40°	4423.2	4325.6	4037.0	3533.5	2744.2	1911.0	1167.0	626.6	304.1	142.9	5.7
42.5°	3468.4	3401.9	3012.9	2510.8	1812.0	1219.3	701.6	370.6	171.2	82.0	1.4
45°	2396.2	2309.9	2004.4	1578.6	1087.8	676.1	393.2	193.8	97.6	49.5	0.0
47.5°	1322.6	1216.5	1039.7	817.6	547.4	355.0	198.0	104.7	55.2	24.0	0.0
50°	529.0	524.8	417.3	297.0	209.3	161.3	99.0	56.6	28.3	8.5	1.4
52.5°	185.3	185.3	159.8	130.1	101.8	73.6	49.5	26.9	9.9	2.8	1.4
55°	41.0	45.3	42.4	39.6	38.2	32.5	21.2	9.9	2.8	0.0	1.4
57.5°	4.2	4.2	4.2	5.7	7.1	7.1	5.7	2.8	0.0	0.0	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	2.8
62.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	1.4	1.4	2.8
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
75°	0.0	0.0	1.4	1.4	0.0	1.4	1.4	1.4	1.4	1.4	4.2
77.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	73.6	73.6	73.6	73.6	73.6
2.5°	73.6	58.0	48.1	42.4	41.0
5°	69.3	43.9	31.1	26.9	25.5
7.5°	62.2	32.5	21.2	17.0	15.6
10°	53.8	24.0	14.1	9.9	9.9
12.5°	45.3	18.4	8.5	4.2	2.8
15°	36.8	11.3	2.8	1.4	1.4
17.5°	28.3	7.1	0.0	0.0	0.0
20°	22.6	2.8	0.0	0.0	0.0
22.5°	17.0	1.4	0.0	0.0	0.0
25°	11.3	0.0	0.0	0.0	0.0
27.5°	7.1	0.0	0.0	0.0	0.0
30°	4.2	0.0	0.0	0.0	0.0
32.5°	1.4	0.0	0.0	0.0	0.0
35°	1.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	1.4	0.0	0.0	1.4	1.4
47.5°	1.4	1.4	1.4	2.8	2.8
50°	1.4	1.4	1.4	2.8	4.2
52.5°	2.8	1.4	2.8	4.2	4.2
55°	2.8	2.8	4.2	5.7	5.7
57.5°	2.8	2.8	4.2	5.7	5.7
60°	2.8	2.8	4.2	5.7	7.1
62.5°	4.2	4.2	4.2	5.7	5.7
65°	4.2	4.2	4.2	5.7	7.1
67.5°	4.2	4.2	4.2	5.7	7.1
70°	4.2	4.2	4.2	5.7	5.7
72.5°	5.7	4.2	4.2	5.7	5.7
75°	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	2.8	4.2	4.2
80°	4.2	2.8	2.8	2.8	2.8
82.5°	4.2	2.8	2.8	2.8	2.8
85°	4.2	2.8	1.4	1.4	1.4
87.5°	4.2	2.8	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)