

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: P1316177

Luminaire Tested: LDSQA3D02R709740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

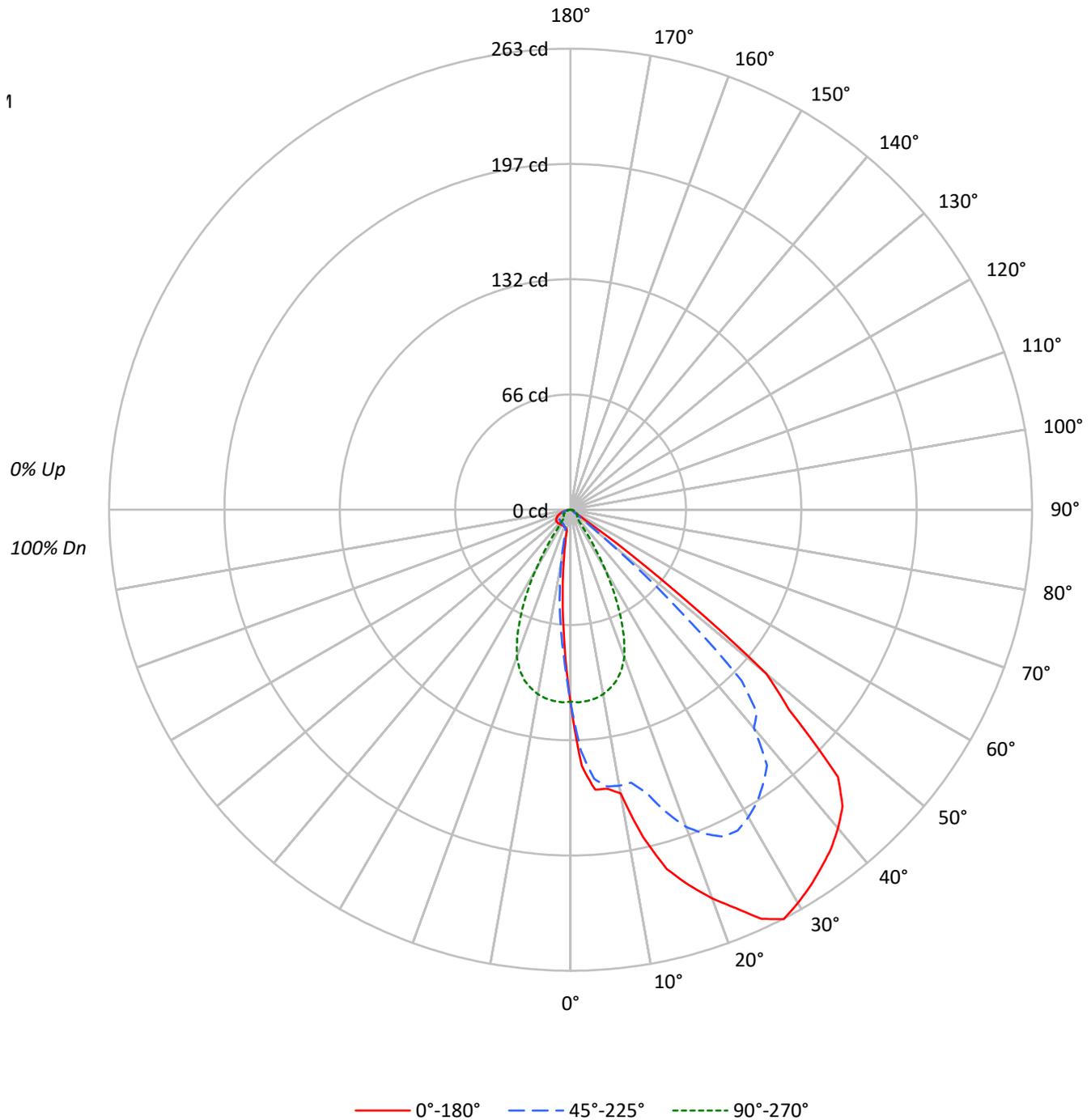
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 208.0 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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**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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

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

	0°	45°	90°	135°	180°
0°	18858	18858	18858	18858	18858
5°	27713	26641	18930	11306	8851
10°	28733	27946	18695	5404	2186
15°	37835	29794	18008	1943	1890
20°	43216	35299	16385	1851	1906
25°	48932	39107	12865	1786	1881
30°	51526	40270	7975	1790	2009
35°	52393	40199	2628	1829	2123
40°	53327	36556	1281	1956	2338
45°	52487	33563	1315	2070	2533
50°	39011	6189	1340	2277	2786
55°	3123	841	1411	2402	2973
60°	654	896	1378	2446	3100
65°	693	856	1345	2404	3179
70°	604	856	1309	2266	3072
75°	466	799	1131	2196	2994
80°	496	694	1190	2083	2777
85°	395	988	1383	1778	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 53120 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.0	4.8
10°-20°	28.0	13.5
20°-30°	47.1	22.6
30°-40°	56.6	27.2
40°-50°	44.9	21.6
50°-60°	14.4	6.9
60°-70°	4.0	1.9
70°-80°	2.4	1.1
80°-90°	0.8	0.4
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°	85.0	40.9
0°-40°	141.6	68.1
0°-60°	200.8	96.6
0°-90°	208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	208.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	110	110	110	110	110	
5°	160	154	110	65	51	15
15°	212	167	101	11	11	60
25°	258	206	68	9	10	118
35°	249	191	12	9	10	156
45°	216	138	5	8	10	155
55°	10	3	5	8	10	33
65°	2	2	3	6	8	2
75°	1	1	2	3	4	1
85°	0	0	1	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°	50°
0°	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5
2.5°	146.1	147.0	147.0	145.9	146.3	144.4	143.0	140.9	140.4	137.8	134.5
5°	160.3	159.8	159.8	158.8	159.3	158.6	157.9	157.4	156.0	154.1	152.2
7.5°	160.5	161.0	161.2	161.0	161.9	161.2	161.2	161.2	160.3	159.3	157.4
10°	164.3	163.6	162.9	161.2	160.3	159.5	159.5	159.8	160.3	159.8	158.6
12.5°	191.4	188.8	187.6	183.6	180.6	175.4	169.5	165.0	161.0	159.5	158.6
15°	212.2	211.7	209.3	205.6	201.8	195.7	188.8	182.0	174.7	167.1	161.7
17.5°	224.5	223.5	221.1	217.1	212.7	207.0	201.6	196.4	189.3	180.8	172.1
20°	235.8	233.7	230.6	225.9	221.4	216.0	210.1	205.1	199.2	192.6	182.4
22.5°	245.9	244.0	239.1	232.7	228.2	223.0	217.8	213.1	207.7	200.1	190.9
25°	257.5	253.2	245.2	237.0	231.5	227.3	223.5	219.7	214.1	205.8	194.9
27.5°	263.2	257.3	248.5	240.3	235.1	230.6	226.6	222.8	216.4	206.3	193.8
30°	259.1	255.8	249.7	243.3	239.1	234.8	230.1	224.5	214.3	202.5	190.9
32.5°	254.4	252.8	249.9	246.2	243.6	239.3	232.7	223.5	209.3	197.8	185.3
35°	249.2	248.5	247.6	245.9	244.3	240.3	232.0	218.6	204.4	191.2	179.1
37.5°	243.8	243.1	243.8	243.6	242.2	237.0	224.5	211.9	197.3	183.9	160.5
40°	237.2	236.7	237.9	239.1	237.4	230.6	217.1	202.0	189.0	162.6	154.6
42.5°	229.4	229.2	231.3	232.2	229.9	219.7	203.9	192.8	165.4	157.0	138.1
45°	215.5	216.0	216.9	218.1	216.7	205.6	191.2	170.9	158.8	137.8	78.6
47.5°	168.8	169.2	173.9	183.9	190.7	186.9	174.7	159.5	142.1	78.8	24.8
50°	145.6	145.1	145.4	147.7	153.2	158.4	154.6	146.3	84.7	23.1	3.1
52.5°	64.0	71.0	78.6	99.8	113.5	127.9	130.8	91.6	27.6	3.1	3.1
55°	10.4	10.9	13.7	20.1	36.1	54.5	66.1	30.7	2.8	2.8	2.8
57.5°	2.1	2.1	2.1	2.4	3.5	7.6	8.7	2.6	2.6	2.6	2.8
60°	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.4	2.4	2.6	2.6
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	2.4	2.4	2.6
65°	1.7	1.7	1.7	1.7	1.9	1.9	1.9	1.9	2.1	2.1	2.4
67.5°	1.4	1.4	1.4	1.4	1.7	1.7	1.7	1.9	1.9	1.9	2.1
70°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.7	1.7	1.7
72.5°	0.9	0.9	0.9	0.9	1.2	1.2	1.2	1.2	1.4	1.4	1.4
75°	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2	1.2
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7
82.5°	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5
2.5°	132.4	129.1	124.6	110.0	96.5	84.3	78.1	77.4
5°	149.2	146.1	138.5	109.5	83.8	65.4	54.3	51.2
7.5°	155.5	152.9	146.3	108.6	71.7	47.0	34.5	29.7
10°	157.2	155.5	149.9	106.9	59.2	30.9	16.3	12.5
12.5°	157.9	156.7	151.3	104.3	46.7	16.0	11.1	11.1
15°	159.1	157.9	152.7	101.0	34.5	10.9	10.6	10.6
17.5°	164.3	160.5	154.6	96.1	22.7	10.4	10.4	10.4
20°	172.8	164.5	155.5	89.4	14.2	10.1	10.1	10.4
22.5°	179.8	168.8	155.3	79.5	10.4	9.7	9.9	10.1
25°	182.9	170.6	153.2	67.7	9.0	9.4	9.9	9.9
27.5°	182.4	171.3	151.3	54.3	8.5	9.2	9.7	10.1
30°	179.8	169.5	147.0	40.1	8.0	9.0	9.7	10.1
32.5°	175.4	162.1	138.5	26.0	7.8	9.0	9.7	10.1
35°	160.7	150.3	126.3	12.5	7.6	8.7	9.9	10.1
37.5°	152.2	137.8	96.3	6.1	7.3	8.7	9.9	10.1
40°	138.5	102.9	43.4	5.7	7.3	8.7	9.9	10.4
42.5°	87.1	42.2	7.1	5.4	7.1	8.7	9.9	10.4
45°	31.9	5.7	3.8	5.4	7.1	8.5	9.9	10.4
47.5°	3.3	3.3	3.5	5.2	6.8	8.5	9.9	10.4
50°	3.1	3.3	3.5	5.0	6.6	8.5	9.7	10.4
52.5°	3.1	3.3	3.5	5.0	6.4	8.3	9.7	10.4
55°	3.1	3.3	3.3	4.7	6.1	8.0	9.4	9.9
57.5°	2.8	3.1	3.3	4.5	5.9	7.6	9.2	9.7
60°	2.8	3.1	3.3	4.0	5.7	7.1	8.7	9.0
62.5°	2.6	2.8	3.1	3.8	5.2	6.6	8.0	8.5
65°	2.6	2.6	2.8	3.3	4.7	5.9	7.3	7.8
67.5°	2.1	2.4	2.4	2.8	4.0	5.2	6.6	7.1
70°	1.9	1.9	2.1	2.6	3.5	4.5	5.7	6.1
72.5°	1.7	1.7	1.7	2.1	3.1	4.0	5.0	5.4
75°	1.4	1.4	1.4	1.7	2.6	3.3	4.2	4.5
77.5°	1.2	1.2	1.2	1.4	2.1	2.8	3.3	3.8
80°	0.9	0.9	0.9	1.2	1.7	2.1	2.6	2.8
82.5°	0.7	0.7	0.7	0.9	1.2	1.4	1.9	1.9
85°	0.5	0.5	0.5	0.7	0.7	0.9	1.2	1.2
87.5°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)