

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: P1317113

Luminaire Tested: LDSQA3D02R659827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R659827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

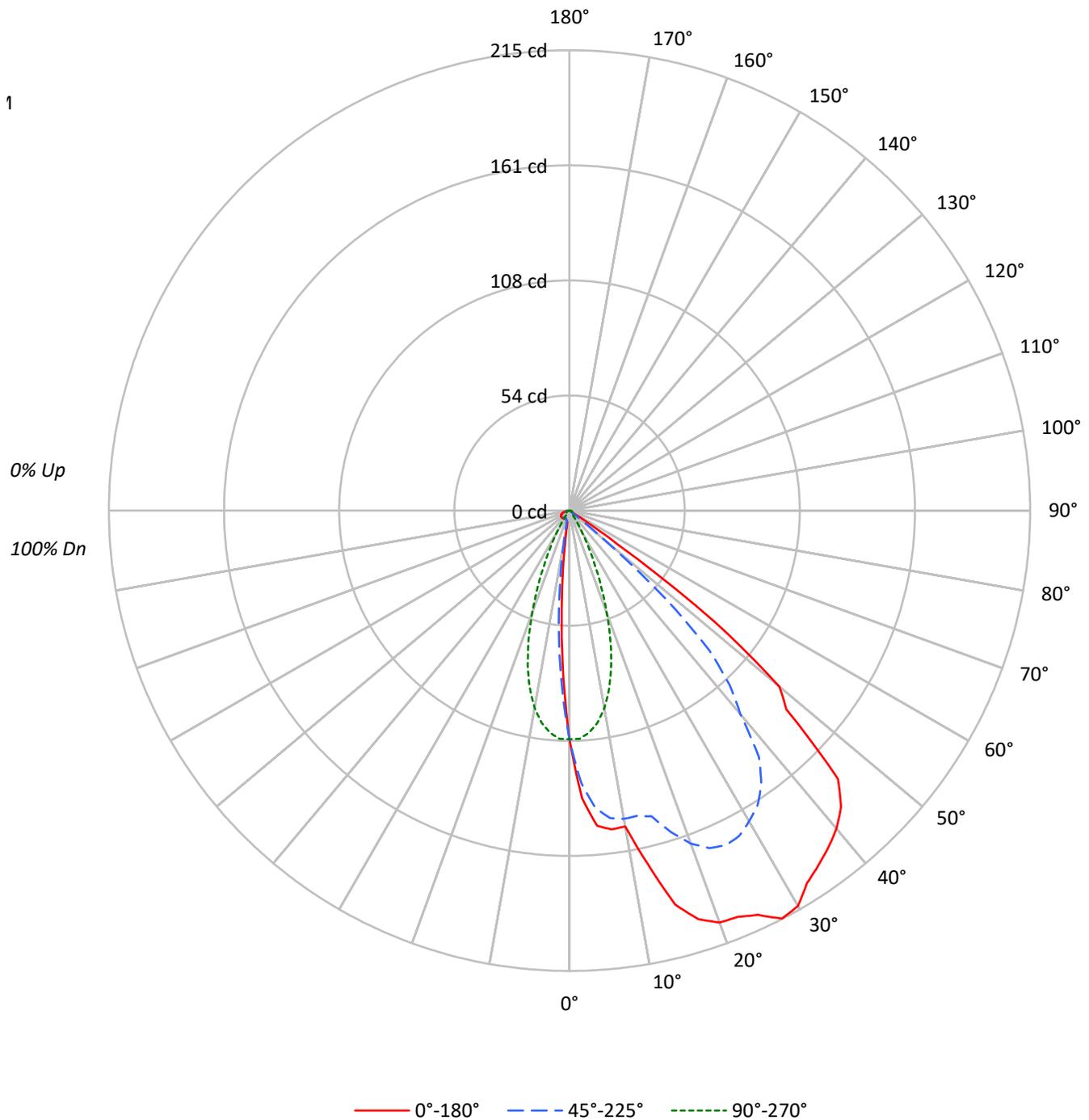
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 160.0 lumens  
Efficiency: N/A  
Efficacy: 44.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
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	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	18376	18376	18376	18376	18376
5°	25552	24117	17997	9889	6950
10°	26197	25567	16369	2763	1014
15°	33948	26352	13408	891	856
20°	37516	30314	9329	788	825
25°	39583	32761	5283	760	817
30°	42398	33330	2386	756	855
35°	42554	32819	778	799	946
40°	43593	27878	517	854	1057
45°	43159	22481	536	926	1145
50°	34268	5305	536	1018	1286
55°	8137	300	540	1141	1441
60°	276	344	620	1206	1550
65°	326	326	611	1304	1712
70°	252	352	604	1259	1762
75°	200	333	532	1331	1797
80°	198	298	694	1289	1785
85°	395	593	593	1383	1581

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 43256 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.9	5.6
10°-20°	23.5	14.7
20°-30°	36.9	23.0
30°-40°	42.2	26.3
40°-50°	33.9	21.2
50°-60°	11.0	6.9
60°-70°	2.0	1.2
70°-80°	1.3	0.8
80°-90°	0.5	0.3
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°	69.2	43.3
0°-40°	111.4	69.6
0°-60°	156.3	97.7
0°-90°	160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	160.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	148	140	104	57	40	14
15°	190	148	75	5	5	53
25°	208	172	28	4	4	97
35°	202	156	4	4	4	127
45°	177	92	2	4	5	128
55°	27	1	2	4	5	39
65°	1	1	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	0	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°	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7
2.5°	134.3	133.8	134.5	133.4	133.2	132.0	131.4	131.0	129.5	127.5	125.7
5°	147.8	145.8	146.3	146.2	145.3	144.8	144.2	143.3	141.3	139.5	137.2
7.5°	150.1	148.5	148.8	149.0	148.5	148.3	148.1	147.8	146.5	144.8	142.8
10°	149.8	148.1	148.0	147.5	147.0	147.2	147.2	147.2	146.8	146.2	145.5
12.5°	169.1	166.8	166.3	162.8	159.6	154.1	150.6	147.3	145.8	146.0	145.5
15°	190.4	190.2	188.6	185.2	179.9	174.9	166.9	161.0	153.3	147.8	145.5
17.5°	200.0	199.9	198.4	195.5	191.7	187.1	181.2	174.3	165.8	157.3	150.3
20°	204.7	205.8	204.2	201.9	198.2	193.9	188.4	182.1	174.1	165.4	157.1
22.5°	205.3	206.8	205.3	203.7	201.0	198.2	193.5	187.1	178.9	170.6	162.4
25°	208.3	208.8	205.7	203.5	201.0	199.0	195.4	189.7	181.4	172.4	164.4
27.5°	214.8	212.7	206.0	203.0	200.7	198.9	195.4	189.6	180.6	171.4	163.1
30°	213.2	212.3	206.5	203.7	201.7	199.9	195.5	188.1	177.2	167.6	159.0
32.5°	206.3	208.0	206.0	205.0	204.0	201.7	195.4	185.2	173.1	163.3	151.6
35°	202.4	204.3	204.5	204.5	203.4	199.9	192.4	181.1	168.9	156.1	140.5
37.5°	198.4	200.0	201.0	201.7	200.0	195.0	185.6	175.4	162.1	145.3	117.9
40°	193.9	195.0	195.9	196.2	193.7	187.2	178.6	167.1	152.1	124.0	105.3
42.5°	187.6	188.2	188.1	187.9	185.2	178.1	169.9	158.0	128.4	110.6	87.8
45°	177.2	176.6	177.6	177.6	174.1	168.8	158.0	134.7	114.9	92.3	56.5
47.5°	137.3	137.8	142.7	150.5	155.3	153.8	139.2	117.9	96.6	60.5	18.8
50°	127.9	127.4	127.5	128.4	128.9	124.7	114.2	99.6	63.8	19.8	1.3
52.5°	85.8	86.3	90.1	98.9	101.8	98.8	88.8	66.5	23.3	1.3	1.2
55°	27.1	28.9	31.1	35.7	43.9	49.1	48.1	23.6	1.5	1.0	1.2
57.5°	1.0	1.0	1.3	2.3	4.5	7.3	7.6	1.5	1.2	1.2	1.2
60°	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
70°	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
75°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
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°	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7
2.5°	124.7	122.7	118.7	106.7	94.3	81.8	74.0	72.0
5°	134.5	132.2	126.5	104.1	78.8	57.2	44.9	40.2
7.5°	140.5	137.7	131.0	99.9	61.4	33.3	20.0	16.0
10°	143.2	140.7	133.2	93.6	44.4	15.8	7.0	5.8
12.5°	144.3	142.3	134.0	85.3	28.9	7.0	5.2	5.0
15°	144.8	142.7	133.7	75.2	16.5	5.0	4.8	4.8
17.5°	145.3	142.8	131.7	63.5	9.1	4.7	4.5	4.7
20°	149.3	142.2	128.2	50.9	6.0	4.3	4.3	4.5
22.5°	153.3	142.0	122.0	38.9	4.7	4.2	4.3	4.3
25°	154.6	140.3	114.2	27.8	4.0	4.0	4.2	4.3
27.5°	152.1	135.5	103.8	18.8	3.5	4.0	4.2	4.3
30°	146.3	127.4	91.1	12.0	3.3	3.8	4.2	4.3
32.5°	135.5	111.2	77.0	7.1	3.2	3.8	4.3	4.3
35°	113.9	93.3	61.0	3.7	3.2	3.8	4.3	4.5
37.5°	99.6	77.8	42.6	2.5	3.2	3.8	4.3	4.5
40°	82.6	56.2	17.8	2.3	3.2	3.8	4.3	4.7
42.5°	57.2	24.4	2.8	2.2	3.0	3.8	4.5	4.7
45°	20.6	3.2	1.3	2.2	3.0	3.8	4.5	4.7
47.5°	1.8	1.2	1.3	2.2	3.0	3.8	4.5	4.8
50°	1.2	1.2	1.2	2.0	3.0	3.8	4.5	4.8
52.5°	1.2	1.2	1.2	2.0	2.8	3.8	4.7	4.8
55°	1.2	1.2	1.2	1.8	2.8	3.8	4.5	4.8
57.5°	1.2	1.2	1.3	1.8	2.8	3.7	4.5	4.7
60°	1.2	1.2	1.2	1.8	2.7	3.5	4.3	4.5
62.5°	1.0	1.2	1.2	1.7	2.5	3.3	4.2	4.3
65°	1.0	1.0	1.2	1.5	2.3	3.2	3.8	4.2
67.5°	0.8	1.0	1.0	1.3	2.0	2.8	3.5	3.8
70°	0.8	0.8	0.8	1.2	1.8	2.5	3.3	3.5
72.5°	0.7	0.8	0.8	1.0	1.5	2.2	2.8	3.2
75°	0.7	0.7	0.7	0.8	1.3	2.0	2.5	2.7
77.5°	0.5	0.5	0.7	0.7	1.2	1.5	2.2	2.3
80°	0.5	0.5	0.5	0.7	0.8	1.3	1.7	1.8
82.5°	0.3	0.3	0.3	0.5	0.7	0.8	1.2	1.3
85°	0.3	0.3	0.3	0.3	0.5	0.7	0.8	0.8
87.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)