

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: P1313255

Luminaire Tested: LDSQA3D02R659727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313255  
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: LDSQA3D02R659727DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

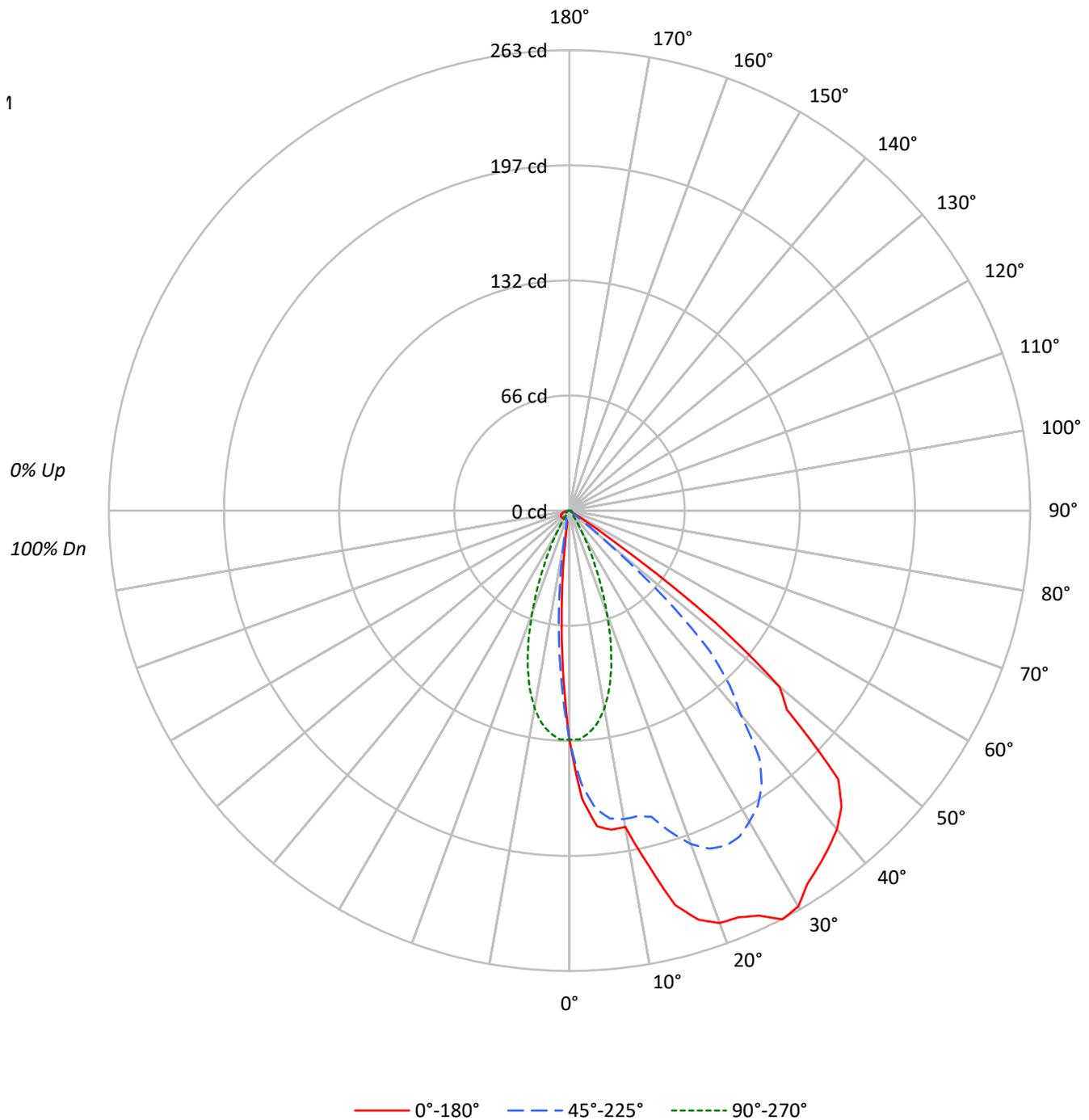
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 196.0 lumens  
Efficiency: N/A  
Efficacy: 54.4 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 (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: P1313255  
CATALOG NUMBER: LDSQA3D02R659727DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	91
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°	22527	22527	22527	22527	22527
5°	31309	29545	22042	12119	8523
10°	32090	31303	20059	3375	1242
15°	41579	32290	16421	1088	1052
20°	45947	37150	11418	971	1008
25°	48495	40134	6461	931	1007
30°	51924	40827	2923	935	1054
35°	52120	40220	946	988	1156
40°	53395	34150	652	1057	1281
45°	52877	27522	633	1145	1388
50°	41958	6484	643	1259	1581
55°	9969	360	661	1411	1772
60°	344	413	758	1481	1894
65°	408	408	734	1589	2078
70°	302	403	705	1561	2165
75°	266	399	665	1597	2196
80°	198	397	793	1587	2182
85°	395	790	790	1581	1976

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 52974 cd/sqm



TEST NUMBER: P1313255

CATALOG NUMBER: LDSQA3D02R659727DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.9	5.6
10°-20°	28.7	14.7
20°-30°	45.1	23.0
30°-40°	51.6	26.4
40°-50°	41.5	21.2
50°-60°	13.5	6.9
60°-70°	2.4	1.2
70°-80°	1.6	0.8
80°-90°	0.6	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
<b>0°-30°</b>	<b>84.8</b>	<b>43.3</b>
<b>0°-40°</b>	<b>136.4</b>	<b>69.6</b>
<b>0°-60°</b>	<b>191.5</b>	<b>97.7</b>
<b>0°-90°</b>	<b>196.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>196.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	131	131	131	131	131	
5°	181	171	128	70	49	17
15°	233	181	92	6	6	65
25°	255	211	34	5	5	119
35°	248	191	4	5	6	156
45°	217	113	3	5	6	156
55°	33	1	2	5	6	47
65°	1	1	2	4	5	1
75°	0	1	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°	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8
2.5°	164.6	164.0	164.8	163.4	163.2	161.7	160.9	160.5	158.7	156.2	154.0
5°	181.1	178.6	179.2	179.0	178.0	177.4	176.6	175.6	173.1	170.9	168.0
7.5°	183.9	181.9	182.3	182.5	181.9	181.7	181.5	181.1	179.4	177.4	175.0
10°	183.5	181.5	181.3	180.7	180.1	180.3	180.3	180.3	179.9	179.0	178.2
12.5°	207.1	204.3	203.7	199.4	195.5	188.8	184.5	180.5	178.6	178.8	178.2
15°	233.2	233.0	231.0	226.9	220.4	214.3	204.5	197.2	187.8	181.1	178.2
17.5°	245.0	244.8	243.0	239.5	234.8	229.1	222.0	213.5	203.1	192.7	184.1
20°	250.7	252.2	250.1	247.3	242.8	237.5	230.8	223.0	213.3	202.7	192.5
22.5°	251.5	253.4	251.5	249.5	246.3	242.8	237.1	229.1	219.2	209.0	199.0
25°	255.2	255.8	252.0	249.3	246.3	243.8	239.3	232.4	222.2	211.2	201.4
27.5°	263.2	260.5	252.4	248.7	245.8	243.6	239.3	232.2	221.2	210.0	199.8
30°	261.1	260.1	253.0	249.5	247.1	244.8	239.5	230.4	217.1	205.3	194.7
32.5°	252.8	254.8	252.4	251.1	249.9	247.1	239.3	226.9	212.0	200.0	185.8
35°	247.9	250.3	250.5	250.5	249.1	244.8	235.7	221.8	206.9	191.3	172.1
37.5°	243.0	245.0	246.3	247.1	245.0	238.9	227.3	214.9	198.6	178.0	144.4
40°	237.5	238.9	239.9	240.3	237.3	229.3	218.8	204.7	186.4	151.9	128.9
42.5°	229.8	230.6	230.4	230.2	226.9	218.1	208.2	193.5	157.2	135.4	107.5
45°	217.1	216.3	217.5	217.5	213.3	206.7	193.5	165.0	140.7	113.0	69.3
47.5°	168.2	168.9	174.8	184.3	190.2	188.4	170.5	144.4	118.3	74.1	23.0
50°	156.6	156.0	156.2	157.2	157.9	152.8	139.9	122.0	78.2	24.2	1.6
52.5°	105.1	105.7	110.4	121.2	124.7	121.0	108.8	81.5	28.5	1.6	1.4
55°	33.2	35.4	38.1	43.8	53.8	60.1	58.9	28.9	1.8	1.2	1.4
57.5°	1.2	1.2	1.6	2.9	5.5	9.0	9.4	1.8	1.4	1.4	1.4
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0
70°	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8
75°	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
80°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
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



TEST NUMBER: P1313255

CATALOG NUMBER: LDSQA3D02R659727DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8
2.5°	152.8	150.3	145.4	130.8	115.5	100.2	90.6	88.2
5°	164.8	161.9	155.0	127.5	96.5	70.1	55.0	49.3
7.5°	172.1	168.7	160.5	122.4	75.2	40.7	24.4	19.6
10°	175.4	172.3	163.2	114.7	54.4	19.3	8.6	7.1
12.5°	176.8	174.4	164.2	104.5	35.4	8.6	6.3	6.1
15°	177.4	174.8	163.8	92.1	20.2	6.1	5.9	5.9
17.5°	178.0	175.0	161.3	77.8	11.2	5.7	5.5	5.7
20°	182.9	174.1	157.0	62.3	7.3	5.3	5.3	5.5
22.5°	187.8	173.9	149.5	47.7	5.7	5.1	5.3	5.3
25°	189.4	171.9	139.9	34.0	4.9	4.9	5.1	5.3
27.5°	186.4	166.0	127.1	23.0	4.3	4.9	5.1	5.3
30°	179.2	156.0	111.6	14.7	4.1	4.7	5.1	5.3
32.5°	166.0	136.3	94.3	8.8	3.9	4.7	5.3	5.3
35°	139.5	114.3	74.8	4.5	3.9	4.7	5.3	5.5
37.5°	122.0	95.3	52.1	3.1	3.9	4.7	5.3	5.5
40°	101.2	68.8	21.8	2.9	3.9	4.7	5.3	5.7
42.5°	70.1	29.9	3.5	2.6	3.7	4.7	5.5	5.7
45°	25.3	3.9	1.6	2.6	3.7	4.7	5.5	5.7
47.5°	2.2	1.4	1.6	2.6	3.7	4.7	5.5	5.9
50°	1.4	1.4	1.4	2.4	3.7	4.7	5.5	5.9
52.5°	1.4	1.4	1.4	2.4	3.5	4.7	5.7	5.9
55°	1.4	1.4	1.4	2.2	3.5	4.7	5.5	5.9
57.5°	1.4	1.4	1.6	2.2	3.5	4.5	5.5	5.7
60°	1.4	1.4	1.4	2.2	3.3	4.3	5.3	5.5
62.5°	1.2	1.4	1.4	2.0	3.1	4.1	5.1	5.3
65°	1.2	1.2	1.4	1.8	2.9	3.9	4.7	5.1
67.5°	1.0	1.2	1.2	1.6	2.4	3.5	4.3	4.7
70°	1.0	1.0	1.0	1.4	2.2	3.1	4.1	4.3
72.5°	0.8	1.0	1.0	1.2	1.8	2.6	3.5	3.9
75°	0.8	0.8	0.8	1.0	1.6	2.4	3.1	3.3
77.5°	0.6	0.6	0.8	0.8	1.4	1.8	2.6	2.9
80°	0.6	0.6	0.6	0.8	1.0	1.6	2.0	2.2
82.5°	0.4	0.4	0.4	0.6	0.8	1.0	1.4	1.6
85°	0.4	0.4	0.4	0.4	0.6	0.8	1.0	1.0
87.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)