

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: P1315199

Luminaire Tested: LDSQA3D02R659735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315199  
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: LDSQA3D02R659735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

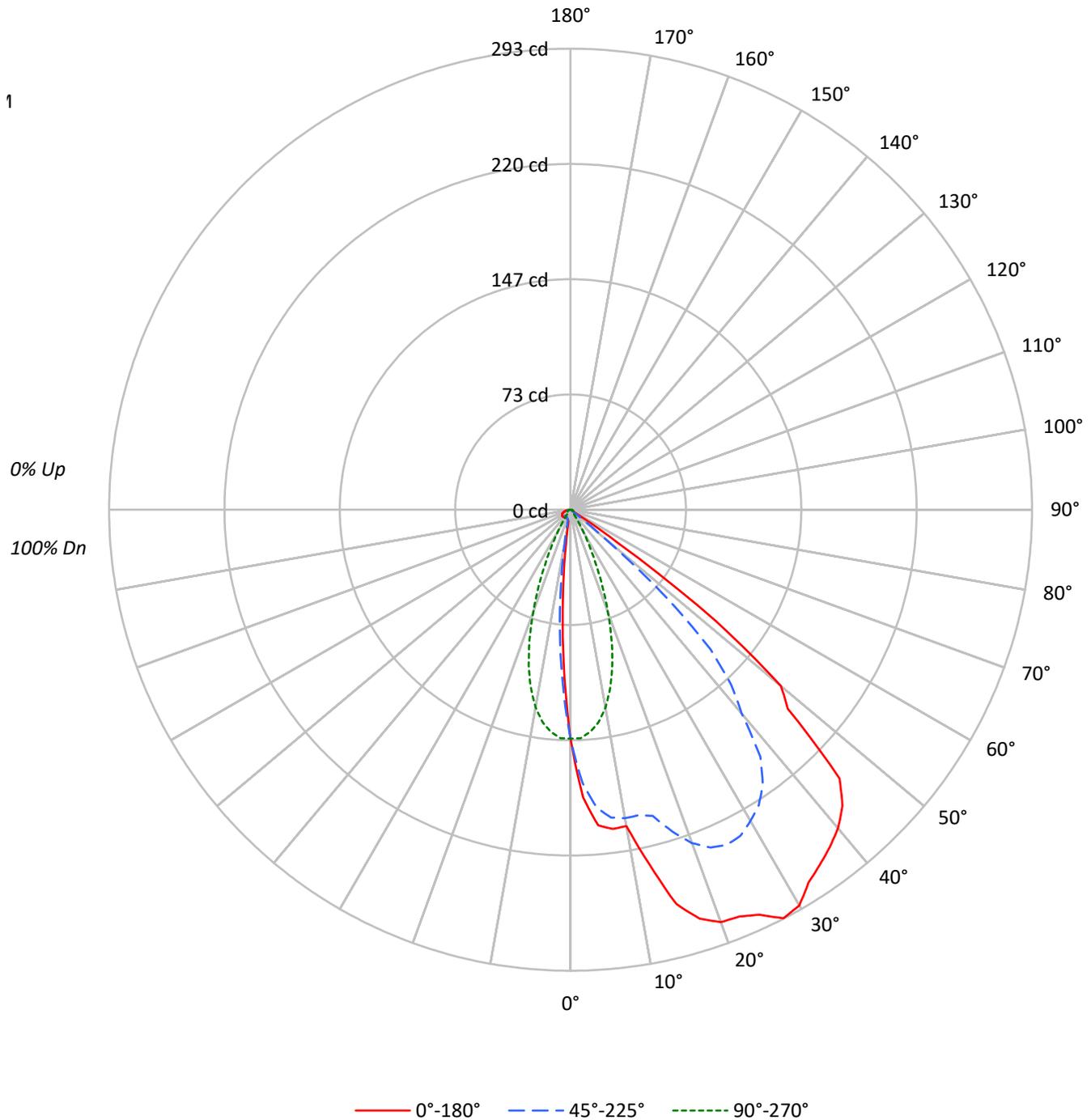
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 218.0 lumens  
Efficiency: N/A  
Efficacy: 60.6 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	109	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°	25041	25041	25041	25041	25041
5°	34818	32865	24514	13467	9474
10°	35693	34818	22297	3760	1382
15°	46251	35909	18258	1212	1177
20°	51116	41310	12701	1081	1118
25°	53949	44637	7183	1026	1121
30°	57751	45421	3242	1034	1173
35°	57965	44719	1051	1093	1282
40°	59398	37995	719	1169	1416
45°	58820	30615	706	1267	1534
50°	46674	7234	723	1393	1768
55°	11080	420	751	1561	1982
60°	379	482	861	1653	2101
65°	448	448	815	1752	2323
70°	352	453	806	1712	2417
75°	333	466	732	1797	2396
80°	198	496	893	1785	2479
85°	395	988	988	1778	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 58941 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.1	5.6
10°-20°	32.0	14.7
20°-30°	50.2	23.0
30°-40°	57.4	26.3
40°-50°	46.2	21.2
50°-60°	15.0	6.9
60°-70°	2.7	1.2
70°-80°	1.8	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>94.3</b>	<b>43.3</b>
<b>0°-40°</b>	<b>151.7</b>	<b>69.6</b>
<b>0°-60°</b>	<b>212.9</b>	<b>97.7</b>
<b>0°-90°</b>	<b>218.0</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>218.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	201	190	142	78	55	19
15°	259	201	102	7	7	72
25°	284	235	38	5	6	132
35°	276	213	5	5	6	173
45°	242	126	3	5	6	174
55°	37	1	2	5	7	53
65°	1	1	2	4	6	1
75°	0	1	1	3	4	1
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°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4
2.5°	183.0	182.4	183.3	181.7	181.5	179.9	179.0	178.5	176.5	173.8	171.3
5°	201.4	198.7	199.4	199.1	198.0	197.3	196.4	195.3	192.6	190.1	186.9
7.5°	204.6	202.3	202.8	203.0	202.3	202.1	201.9	201.4	199.6	197.3	194.6
10°	204.1	201.9	201.6	200.9	200.3	200.5	200.5	200.5	200.0	199.1	198.2
12.5°	230.4	227.2	226.5	221.8	217.5	210.0	205.3	200.7	198.7	198.9	198.2
15°	259.4	259.2	256.9	252.4	245.1	238.3	227.5	219.3	208.9	201.4	198.2
17.5°	272.5	272.3	270.3	266.4	261.2	254.9	246.9	237.4	225.9	214.3	204.8
20°	278.9	280.5	278.2	275.0	270.0	264.2	256.7	248.1	237.2	225.4	214.1
22.5°	279.8	281.8	279.8	277.5	273.9	270.0	263.7	254.9	243.8	232.4	221.3
25°	283.9	284.5	280.2	277.3	273.9	271.2	266.2	258.5	247.2	234.9	224.1
27.5°	292.7	289.8	280.7	276.6	273.4	270.9	266.2	258.3	246.0	233.6	222.2
30°	290.4	289.3	281.4	277.5	274.8	272.3	266.4	256.2	241.5	228.4	216.6
32.5°	281.1	283.4	280.7	279.3	278.0	274.8	266.2	252.4	235.8	222.5	206.6
35°	275.7	278.4	278.7	278.7	277.1	272.3	262.1	246.7	230.2	212.7	191.4
37.5°	270.3	272.5	273.9	274.8	272.5	265.7	252.8	239.0	220.9	198.0	160.6
40°	264.2	265.7	266.9	267.3	263.9	255.1	243.3	227.7	207.3	169.0	143.4
42.5°	255.5	256.5	256.2	256.0	252.4	242.6	231.5	215.2	174.9	150.7	119.6
45°	241.5	240.6	242.0	242.0	237.2	229.9	215.2	183.5	156.5	125.7	77.0
47.5°	187.1	187.8	194.4	205.0	211.6	209.6	189.6	160.6	131.6	82.5	25.6
50°	174.2	173.5	173.8	174.9	175.6	169.9	155.6	135.7	87.0	27.0	1.8
52.5°	116.9	117.6	122.8	134.8	138.6	134.6	121.0	90.6	31.7	1.8	1.6
55°	36.9	39.4	42.4	48.7	59.8	66.8	65.5	32.2	2.0	1.4	1.6
57.5°	1.4	1.4	1.8	3.2	6.1	10.0	10.4	2.0	1.6	1.6	1.6
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4	1.4
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
70°	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9
75°	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
80°	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4
2.5°	169.9	167.2	161.8	145.4	128.5	111.5	100.8	98.1
5°	183.3	180.1	172.4	141.8	107.4	77.9	61.2	54.8
7.5°	191.4	187.6	178.5	136.2	83.6	45.3	27.2	21.7
10°	195.1	191.7	181.5	127.5	60.5	21.5	9.5	7.9
12.5°	196.6	193.9	182.6	116.2	39.4	9.5	7.0	6.8
15°	197.3	194.4	182.1	102.4	22.4	6.8	6.6	6.6
17.5°	198.0	194.6	179.4	86.5	12.5	6.3	6.1	6.3
20°	203.4	193.7	174.7	69.3	8.2	5.9	5.9	6.1
22.5°	208.9	193.5	166.3	53.0	6.3	5.7	5.9	5.9
25°	210.7	191.2	155.6	37.8	5.4	5.4	5.7	5.9
27.5°	207.3	184.6	141.4	25.6	4.8	5.4	5.7	5.9
30°	199.4	173.5	124.1	16.3	4.5	5.2	5.7	5.9
32.5°	184.6	151.6	104.9	9.7	4.3	5.2	5.9	5.9
35°	155.2	127.1	83.1	5.0	4.3	5.2	5.9	6.1
37.5°	135.7	106.0	58.0	3.4	4.3	5.2	5.9	6.1
40°	112.6	76.6	24.2	3.2	4.3	5.2	5.9	6.3
42.5°	77.9	33.3	3.9	2.9	4.1	5.2	6.1	6.3
45°	28.1	4.3	1.8	2.9	4.1	5.2	6.1	6.3
47.5°	2.5	1.6	1.8	2.9	4.1	5.2	6.1	6.6
50°	1.6	1.6	1.6	2.7	4.1	5.2	6.1	6.6
52.5°	1.6	1.6	1.6	2.7	3.9	5.2	6.3	6.6
55°	1.6	1.6	1.6	2.5	3.9	5.2	6.1	6.6
57.5°	1.6	1.6	1.8	2.5	3.9	5.0	6.1	6.3
60°	1.6	1.6	1.6	2.5	3.6	4.8	5.9	6.1
62.5°	1.4	1.6	1.6	2.3	3.4	4.5	5.7	5.9
65°	1.4	1.4	1.6	2.0	3.2	4.3	5.2	5.7
67.5°	1.1	1.4	1.4	1.8	2.7	3.9	4.8	5.2
70°	1.1	1.1	1.1	1.6	2.5	3.4	4.5	4.8
72.5°	0.9	1.1	1.1	1.4	2.0	2.9	3.9	4.3
75°	0.9	0.9	0.9	1.1	1.8	2.7	3.4	3.6
77.5°	0.7	0.7	0.9	0.9	1.6	2.0	2.9	3.2
80°	0.7	0.7	0.7	0.9	1.1	1.8	2.3	2.5
82.5°	0.5	0.5	0.5	0.7	0.9	1.1	1.6	1.8
85°	0.5	0.5	0.5	0.5	0.7	0.9	1.1	1.1
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)