

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: P1312159

Luminaire Tested: LDSQA3D02R659050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312159  
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: LDSQA3D02R659050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

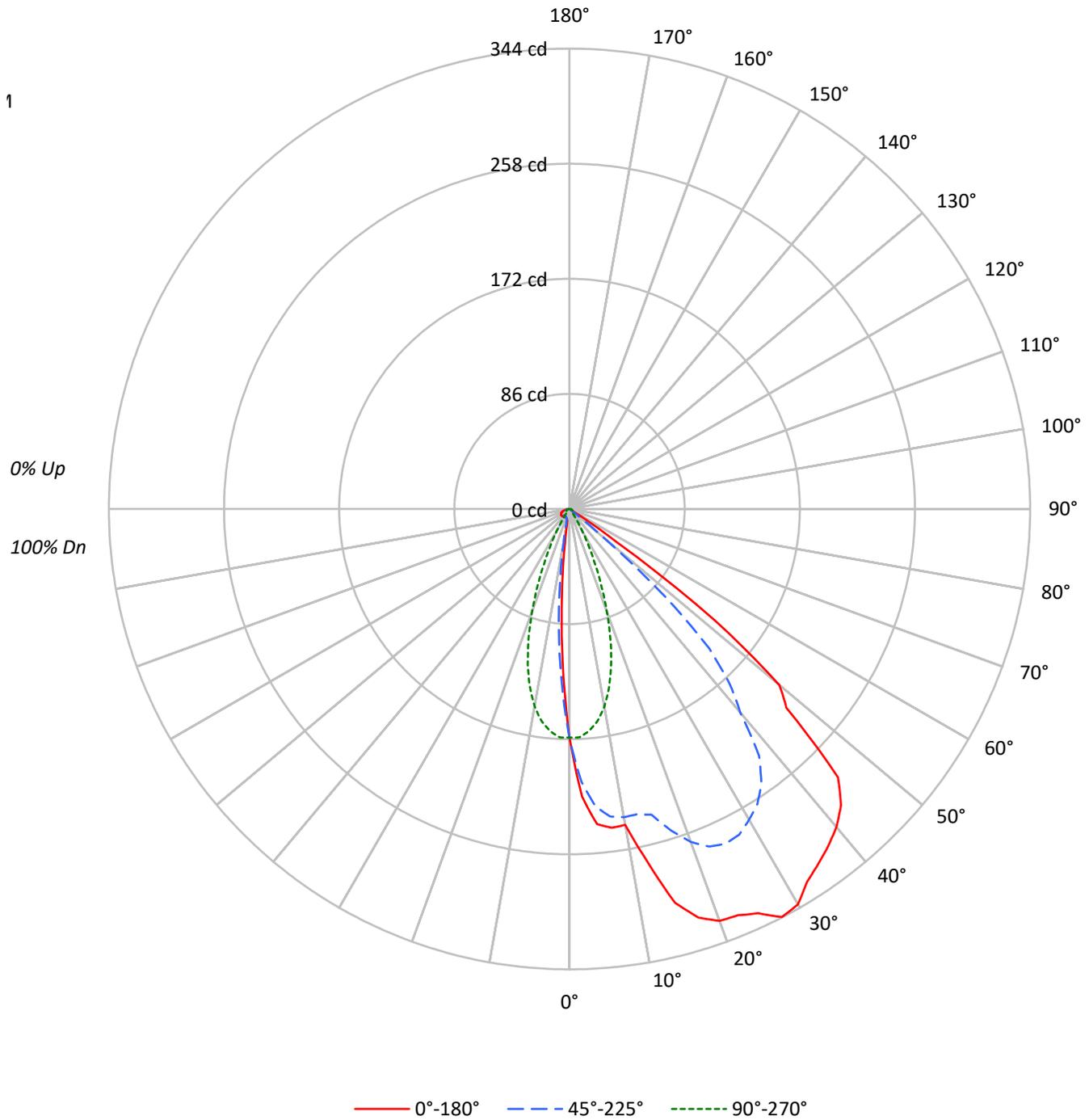
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 256.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	29416	29416	29416	29416	29416
5°	40886	38587	28785	15819	11134
10°	41919	40887	26197	4424	1626
15°	54310	42167	21431	1426	1373
20°	60023	48513	14919	1265	1320
25°	63336	52428	8437	1216	1311
30°	67833	53336	3818	1213	1372
35°	68077	52519	1240	1282	1514
40°	69739	44627	832	1371	1664
45°	69074	35949	852	1486	1802
50°	54819	8493	857	1634	2063
55°	13031	480	871	1832	2312
60°	448	551	999	1929	2480
65°	530	530	978	2078	2730
70°	403	554	957	2014	2820
75°	333	532	865	2129	2861
80°	298	496	1091	2083	2876
85°	593	988	988	2174	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 69195 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.3	5.6
10°-20°	37.5	14.7
20°-30°	59.0	23.0
30°-40°	67.5	26.3
40°-50°	54.2	21.2
50°-60°	17.6	6.9
60°-70°	3.1	1.2
70°-80°	2.1	0.8
80°-90°	0.7	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°	110.8	43.3
0°-40°	178.2	69.6
0°-60°	250.1	97.7
0°-90°	256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	171	171	171	171	171	
5°	236	223	166	92	64	22
15°	305	236	120	8	8	85
25°	333	276	44	6	7	155
35°	324	250	6	6	7	203
45°	284	148	4	6	7	204
55°	43	2	3	6	8	62
65°	1	1	2	5	7	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°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8
2.5°	215.0	214.2	215.2	213.4	213.1	211.2	210.2	209.6	207.2	204.0	201.1
5°	236.5	233.3	234.1	233.8	232.5	231.7	230.7	229.3	226.1	223.2	219.5
7.5°	240.2	237.6	238.1	238.4	237.6	237.3	237.0	236.5	234.4	231.7	228.5
10°	239.7	237.0	236.8	236.0	235.2	235.4	235.4	235.4	234.9	233.8	232.8
12.5°	270.6	266.8	266.0	260.4	255.4	246.6	241.0	235.7	233.3	233.6	232.8
15°	304.6	304.3	301.7	296.4	287.9	279.9	267.1	257.5	245.3	236.5	232.8
17.5°	320.0	319.8	317.4	312.9	306.7	299.3	290.0	278.8	265.2	251.7	240.5
20°	327.5	329.4	326.7	323.0	317.1	310.2	301.4	291.3	278.5	264.7	251.4
22.5°	328.6	330.9	328.6	325.9	321.6	317.1	309.7	299.3	286.3	273.0	259.9
25°	333.3	334.1	329.1	325.6	321.6	318.4	312.6	303.5	290.2	275.9	263.1
27.5°	343.7	340.3	329.6	324.8	321.1	318.2	312.6	303.3	288.9	274.3	261.0
30°	341.1	339.7	330.4	325.9	322.7	319.8	312.9	300.9	283.6	268.2	254.3
32.5°	330.2	332.8	329.6	328.0	326.4	322.7	312.6	296.4	276.9	261.2	242.6
35°	323.8	327.0	327.2	327.2	325.4	319.8	307.8	289.7	270.3	249.8	224.8
37.5°	317.4	320.0	321.6	322.7	320.0	312.1	296.9	280.7	259.4	232.5	188.6
40°	310.2	312.1	313.4	313.9	309.9	299.6	285.7	267.4	243.4	198.5	168.4
42.5°	300.1	301.2	300.9	300.6	296.4	284.9	271.9	252.7	205.4	176.9	140.5
45°	283.6	282.5	284.1	284.1	278.5	270.0	252.7	215.5	183.8	147.6	90.5
47.5°	219.7	220.5	228.3	240.8	248.5	246.1	222.7	188.6	154.6	96.8	30.1
50°	204.6	203.8	204.0	205.4	206.2	199.5	182.8	159.4	102.2	31.7	2.1
52.5°	137.3	138.1	144.2	158.3	162.8	158.0	142.1	106.4	37.2	2.1	1.9
55°	43.4	46.3	49.7	57.2	70.2	78.5	76.9	37.8	2.4	1.6	1.9
57.5°	1.6	1.6	2.1	3.7	7.2	11.7	12.2	2.4	1.9	1.9	1.9
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.6	1.6	1.6
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.6	1.6
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3
70°	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
80°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	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	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°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8
2.5°	199.5	196.3	189.9	170.8	150.8	130.9	118.4	115.2
5°	215.2	211.5	202.5	166.5	126.1	91.5	71.8	64.4
7.5°	224.8	220.3	209.6	159.9	98.2	53.2	31.9	25.5
10°	229.1	225.1	213.1	149.8	71.0	25.3	11.2	9.3
12.5°	230.9	227.7	214.4	136.5	46.3	11.2	8.2	8.0
15°	231.7	228.3	213.9	120.2	26.3	8.0	7.7	7.7
17.5°	232.5	228.5	210.7	101.6	14.6	7.4	7.2	7.4
20°	238.9	227.5	205.1	81.4	9.6	6.9	6.9	7.2
22.5°	245.3	227.2	195.3	62.3	7.4	6.7	6.9	6.9
25°	247.4	224.5	182.8	44.4	6.4	6.4	6.7	6.9
27.5°	243.4	216.8	166.0	30.1	5.6	6.4	6.7	6.9
30°	234.1	203.8	145.8	19.2	5.3	6.1	6.7	6.9
32.5°	216.8	178.0	123.2	11.4	5.1	6.1	6.9	6.9
35°	182.2	149.2	97.6	5.9	5.1	6.1	6.9	7.2
37.5°	159.4	124.5	68.1	4.0	5.1	6.1	6.9	7.2
40°	132.2	89.9	28.5	3.7	5.1	6.1	6.9	7.4
42.5°	91.5	39.1	4.5	3.5	4.8	6.1	7.2	7.4
45°	33.0	5.1	2.1	3.5	4.8	6.1	7.2	7.4
47.5°	2.9	1.9	2.1	3.5	4.8	6.1	7.2	7.7
50°	1.9	1.9	1.9	3.2	4.8	6.1	7.2	7.7
52.5°	1.9	1.9	1.9	3.2	4.5	6.1	7.4	7.7
55°	1.9	1.9	1.9	2.9	4.5	6.1	7.2	7.7
57.5°	1.9	1.9	2.1	2.9	4.5	5.9	7.2	7.4
60°	1.9	1.9	1.9	2.9	4.3	5.6	6.9	7.2
62.5°	1.6	1.9	1.9	2.7	4.0	5.3	6.7	6.9
65°	1.6	1.6	1.9	2.4	3.7	5.1	6.1	6.7
67.5°	1.3	1.6	1.6	2.1	3.2	4.5	5.6	6.1
70°	1.3	1.3	1.3	1.9	2.9	4.0	5.3	5.6
72.5°	1.1	1.3	1.3	1.6	2.4	3.5	4.5	5.1
75°	1.1	1.1	1.1	1.3	2.1	3.2	4.0	4.3
77.5°	0.8	0.8	1.1	1.1	1.9	2.4	3.5	3.7
80°	0.8	0.8	0.8	1.1	1.3	2.1	2.7	2.9
82.5°	0.5	0.5	0.5	0.8	1.1	1.3	1.9	2.1
85°	0.5	0.5	0.5	0.5	0.8	1.1	1.3	1.3
87.5°	0.3	0.3	0.3	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)