

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: P1317912

Luminaire Tested: LDSQA3D02R309830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

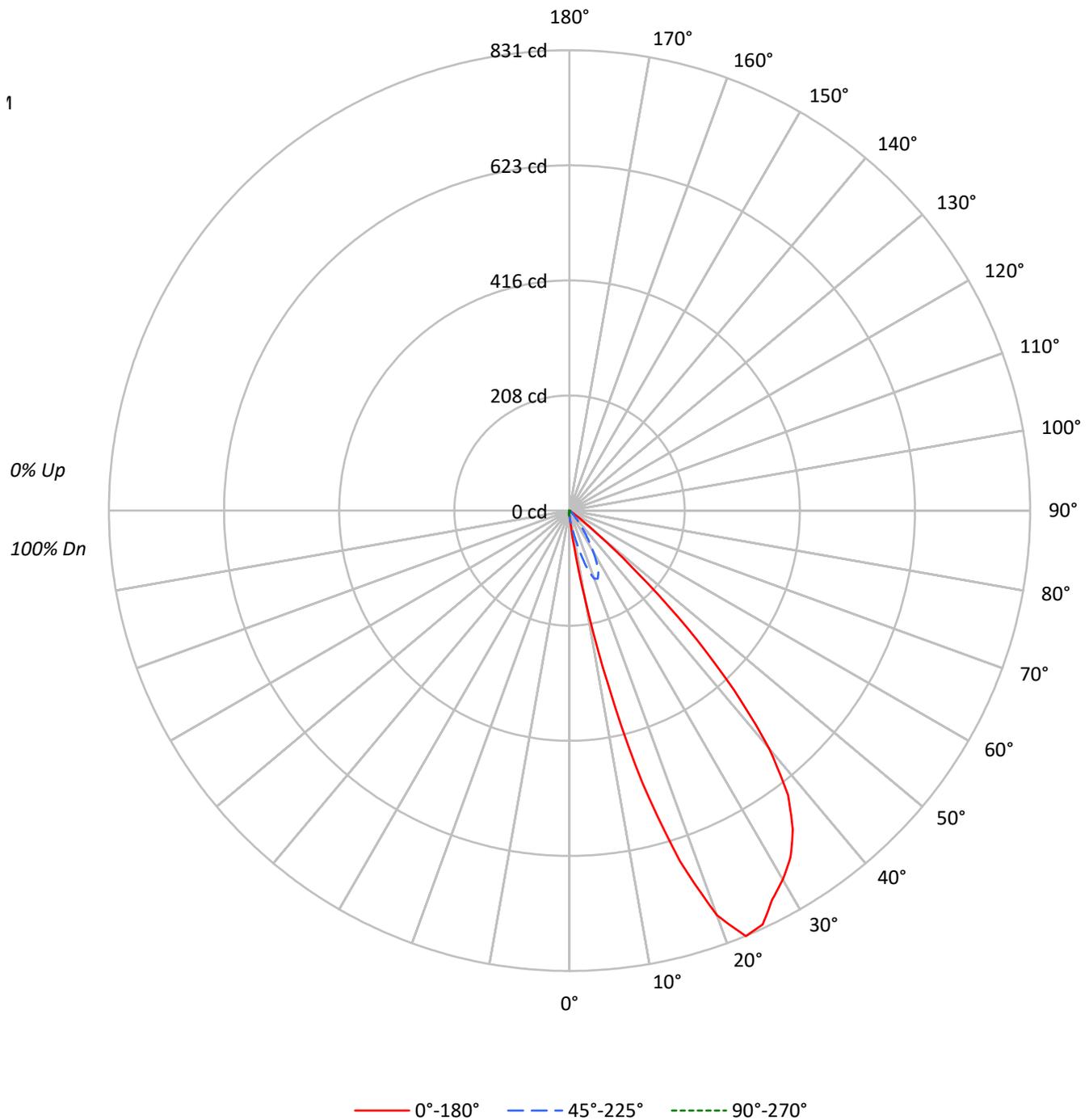
Test Method: LM-79-2019  
Report Number: P1317912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R309830DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 196.0 lumens  
Efficiency: N/A  
Efficacy: 54.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
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	100			100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83			83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75			75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68			68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61			61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41			41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°	45°	90°	135°	180°
0°	1602	1602	1602	1602	1602
5°	4823	3216	1521	674	553
10°	27963	6820	1189	315	227
15°	90985	15494	838	71	36
20°	142368	23954	531	0	0
25°	156620	23411	266	0	0
30°	152967	16884	99	0	0
35°	147634	9608	42	0	0
40°	125900	4069	0	0	0
45°	73896	1534	49	0	49
50°	17951	295	54	54	134
55°	1561	0	120	150	210
60°	69	0	138	172	310
65°	82	82	204	204	367
70°	101	101	252	252	352
75°	0	133	333	333	333
80°	0	198	496	397	397
85°	0	395	988	395	395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 73896 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.7	0.9
10°-20°	26.9	13.7
20°-30°	68.5	34.9
30°-40°	68.2	34.8
40°-50°	27.6	14.1
50°-60°	1.9	1.0
60°-70°	0.4	0.2
70°-80°	0.4	0.2
80°-90°	0.3	0.1
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>97.1</b>	<b>49.5</b>
<b>0°-40°</b>	<b>165.3</b>	<b>84.3</b>
<b>0°-60°</b>	<b>194.9</b>	<b>99.4</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°	9	9	9	9	9	
5°	28	19	9	4	3	6
15°	510	87	5	0	0	149
25°	824	123	1	0	0	372
35°	702	46	0	0	0	430
45°	303	6	0	0	0	231
55°	5	0	0	0	1	14
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
2.5°	15.4	15.6	15.6	15.2	15.0	15.0	14.5	14.3	13.8	13.3	11.5
5°	27.9	27.4	26.7	26.7	25.1	24.2	22.9	21.5	20.4	18.6	13.3
7.5°	63.4	59.1	57.8	56.2	50.1	45.3	39.8	34.9	30.4	26.7	14.7
10°	159.9	151.5	144.5	130.4	112.7	95.6	79.9	61.6	49.1	39.0	15.8
12.5°	322.2	310.9	297.5	271.7	238.6	196.1	158.5	118.4	83.1	57.5	16.1
15°	510.3	491.1	470.1	437.4	383.1	322.2	254.3	190.4	133.4	86.9	15.8
17.5°	663.6	656.0	625.1	580.3	513.8	435.4	351.8	264.4	180.0	113.7	14.7
20°	776.8	771.6	734.1	686.5	611.6	521.7	415.5	310.6	212.4	130.7	13.1
22.5°	831.4	830.5	803.4	754.7	675.4	573.5	456.5	337.2	222.4	133.1	10.9
25°	824.2	827.4	812.0	775.9	699.7	594.8	468.7	337.2	215.1	123.2	9.1
27.5°	791.6	793.8	784.1	756.3	685.4	579.4	451.7	315.6	193.8	105.8	7.5
30°	769.2	770.1	758.1	728.4	653.2	544.3	411.6	275.5	161.5	84.9	5.6
32.5°	742.0	741.8	727.9	693.8	610.9	495.0	360.7	227.6	124.1	64.5	3.2
35°	702.2	697.8	678.8	639.6	547.9	428.8	295.7	173.4	89.4	45.7	2.0
37.5°	647.6	636.0	609.1	556.6	459.4	336.2	219.2	121.8	61.1	30.3	1.3
40°	560.0	547.7	511.1	447.4	347.5	242.0	147.8	79.3	38.5	18.1	0.7
42.5°	439.2	430.7	381.5	317.9	229.4	154.4	88.8	46.9	21.7	10.4	0.2
45°	303.4	292.5	253.8	199.9	137.7	85.6	49.8	24.5	12.4	6.3	0.0
47.5°	167.5	154.0	131.6	103.5	69.3	45.0	25.1	13.3	7.0	3.0	0.0
50°	67.0	66.4	52.8	37.6	26.5	20.4	12.5	7.2	3.6	1.1	0.2
52.5°	23.5	23.5	20.2	16.5	12.9	9.3	6.3	3.4	1.3	0.4	0.2
55°	5.2	5.7	5.4	5.0	4.8	4.1	2.7	1.3	0.4	0.0	0.2
57.5°	0.5	0.5	0.5	0.7	0.9	0.9	0.7	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.5
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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):**

	90°	112.5°	135°	157.5°	180°
0°	9.3	9.3	9.3	9.3	9.3
2.5°	9.3	7.3	6.1	5.4	5.2
5°	8.8	5.6	3.9	3.4	3.2
7.5°	7.9	4.1	2.7	2.1	2.0
10°	6.8	3.0	1.8	1.3	1.3
12.5°	5.7	2.3	1.1	0.5	0.4
15°	4.7	1.4	0.4	0.2	0.2
17.5°	3.6	0.9	0.0	0.0	0.0
20°	2.9	0.4	0.0	0.0	0.0
22.5°	2.1	0.2	0.0	0.0	0.0
25°	1.4	0.0	0.0	0.0	0.0
27.5°	0.9	0.0	0.0	0.0	0.0
30°	0.5	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.5
52.5°	0.4	0.2	0.4	0.5	0.5
55°	0.4	0.4	0.5	0.7	0.7
57.5°	0.4	0.4	0.5	0.7	0.7
60°	0.4	0.4	0.5	0.7	0.9
62.5°	0.5	0.5	0.5	0.7	0.7
65°	0.5	0.5	0.5	0.7	0.9
67.5°	0.5	0.5	0.5	0.7	0.9
70°	0.5	0.5	0.5	0.7	0.7
72.5°	0.7	0.5	0.5	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.4	0.5	0.5
80°	0.5	0.4	0.4	0.4	0.4
82.5°	0.5	0.4	0.4	0.4	0.4
85°	0.5	0.4	0.2	0.2	0.2
87.5°	0.5	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)