

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: P1314202

Luminaire Tested: LDSQA3D02R509730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R509730DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

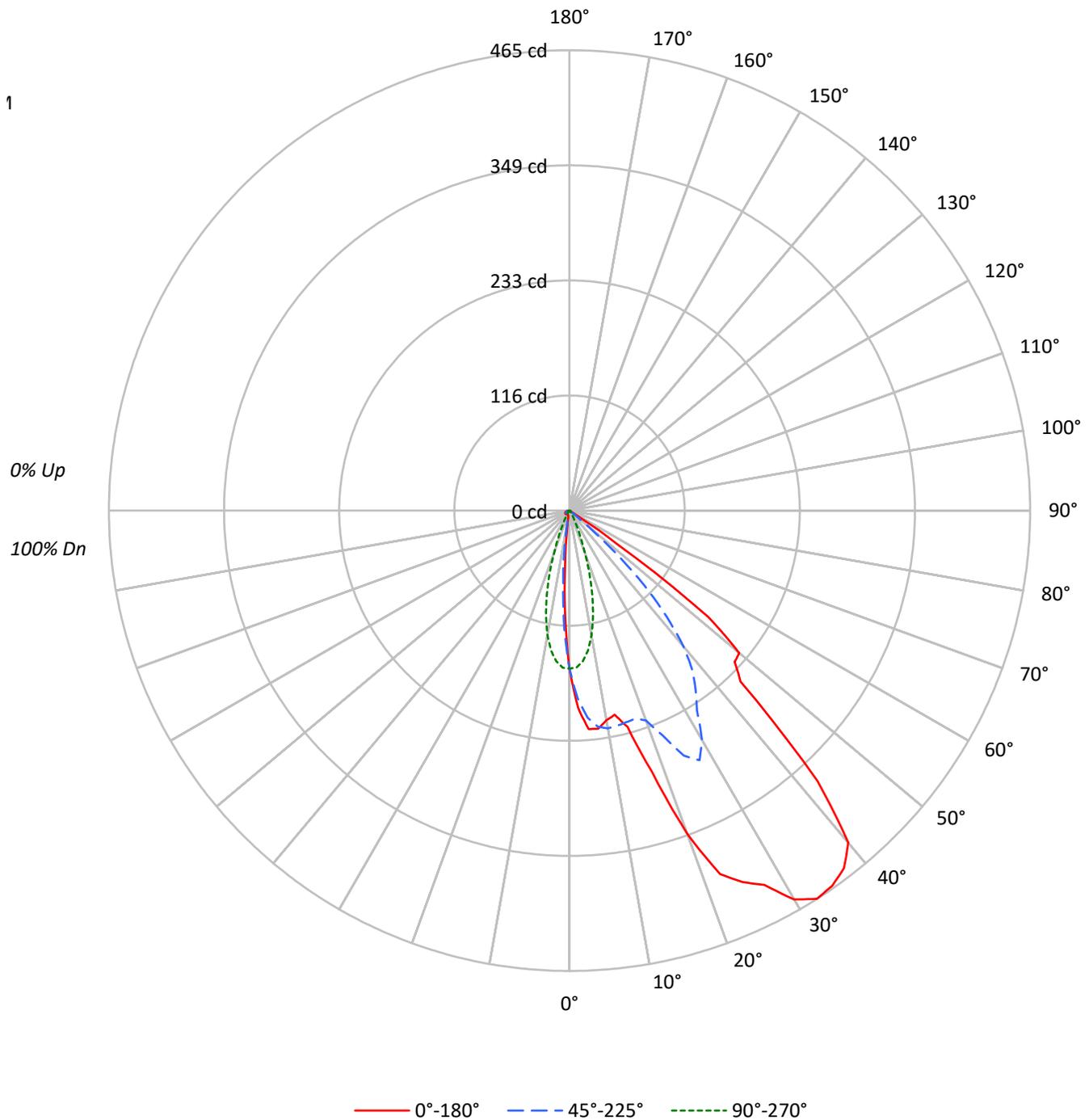
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 248.0 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	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	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36	

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

	0°	45°	90°	135°	180°
0°	27452	27452	27452	27452	27452
5°	38293	36322	26399	12689	8229
10°	37582	39033	22315	2676	1154
15°	40313	39457	15779	927	891
20°	63652	41310	8321	806	843
25°	78652	51877	3325	741	836
30°	90166	53216	1352	736	875
35°	97217	46695	589	778	967
40°	98404	40220	450	877	1079
45°	59477	26061	414	950	1218
50°	59936	4501	455	1099	1393
55°	17715	270	510	1231	1561
60°	310	310	517	1343	1722
65°	285	285	530	1426	1875
70°	352	352	554	1561	2065
75°	266	266	599	1597	2196
80°	198	397	694	1488	2380
85°	395	790	790	1778	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 67929 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.9	5.2
10°-20°	32.0	12.9
20°-30°	60.0	24.2
30°-40°	71.7	28.9
40°-50°	51.4	20.7
50°-60°	15.8	6.4
60°-70°	2.1	0.8
70°-80°	1.5	0.6
80°-90°	0.6	0.2
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°	104.9	42.3
0°-40°	176.6	71.2
0°-60°	243.8	98.3
0°-90°	248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	159	159	159	159	159	
5°	222	210	153	73	48	21
15°	226	221	88	5	5	72
25°	414	273	18	4	4	191
35°	462	222	3	4	5	287
45°	244	107	2	4	5	224
55°	59	1	2	4	5	76
65°	1	1	1	4	5	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°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	199.4	199.8	200.5	198.8	197.7	196.8	195.3	194.8	191.1	189.6	188.1
5°	221.5	221.0	221.5	220.8	220.4	219.1	217.8	215.6	213.2	210.1	206.6
7.5°	222.1	221.7	222.6	222.6	223.4	223.4	223.4	223.7	222.3	220.2	217.1
10°	214.9	214.9	215.8	215.4	216.9	217.5	219.1	221.7	223.0	223.2	222.3
12.5°	211.2	211.2	211.4	210.6	211.0	211.6	213.4	216.4	219.5	222.6	224.3
15°	226.1	226.5	223.4	219.1	215.8	212.3	211.2	213.2	216.4	221.3	225.2
17.5°	276.5	277.2	273.9	263.4	253.4	238.9	226.1	219.7	216.2	220.2	225.4
20°	347.3	344.9	339.2	328.1	313.4	291.1	271.1	250.7	231.3	225.4	227.2
22.5°	397.3	396.4	391.8	379.4	366.7	346.0	320.4	292.0	263.8	245.9	236.5
25°	413.9	413.2	409.1	401.7	394.7	378.9	356.0	327.4	297.9	273.0	249.4
27.5°	426.3	425.5	418.9	410.6	403.4	387.5	366.5	344.9	317.8	284.2	247.9
30°	453.4	451.0	441.9	427.0	413.2	391.2	368.0	341.2	304.5	267.6	232.2
32.5°	464.8	463.5	455.6	443.6	428.5	399.7	364.5	319.5	271.3	239.4	213.6
35°	462.4	460.4	452.3	438.6	420.2	392.5	345.5	283.7	244.4	222.1	193.1
37.5°	455.2	452.3	442.7	426.6	404.3	368.0	306.7	254.7	229.3	204.2	165.1
40°	437.7	433.1	422.0	405.2	382.9	335.3	271.3	237.2	213.6	178.9	133.9
42.5°	370.9	368.5	373.9	371.1	351.4	295.3	246.2	221.3	188.7	144.6	97.0
45°	244.2	248.3	258.2	275.0	278.9	254.0	225.6	195.0	155.3	107.0	55.9
47.5°	226.1	225.2	227.6	230.9	231.5	221.0	195.3	161.2	115.3	61.2	15.5
50°	223.7	222.3	220.4	216.4	208.1	187.8	158.6	117.5	66.6	16.8	1.1
52.5°	176.7	175.4	175.4	169.7	159.0	139.3	109.4	64.7	18.6	1.1	0.9
55°	59.0	62.9	62.2	62.0	66.8	61.6	47.2	16.6	1.5	0.9	0.9
57.5°	1.1	1.1	1.1	2.0	3.1	4.4	2.6	1.3	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7
77.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
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	0.0	0.0	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°	159.4	159.4	159.4	159.4	159.4	159.4	159.4	159.4
2.5°	184.6	181.5	175.6	158.8	140.2	119.0	104.6	102.9
5°	201.2	196.6	187.0	152.7	110.3	73.4	54.6	47.6
7.5°	212.1	206.0	194.2	142.6	80.4	38.7	20.7	16.6
10°	218.6	213.0	197.9	127.6	51.1	15.3	7.0	6.6
12.5°	222.1	216.7	199.2	109.4	28.8	7.0	5.5	5.5
15°	224.5	218.6	197.2	88.5	14.4	5.2	5.0	5.0
17.5°	225.6	218.4	191.5	66.6	7.6	4.8	4.8	4.8
20°	226.3	216.0	181.1	45.4	5.2	4.4	4.6	4.6
22.5°	226.9	210.1	167.3	28.8	4.1	4.1	4.4	4.4
25°	225.6	199.8	147.9	17.5	3.7	3.9	4.1	4.4
27.5°	216.2	184.3	124.3	10.7	3.3	3.7	4.1	4.4
30°	200.1	161.6	97.0	6.8	3.1	3.7	4.1	4.4
32.5°	179.1	135.6	69.2	4.1	3.1	3.7	4.1	4.4
35°	150.9	103.7	45.0	2.8	3.1	3.7	4.4	4.6
37.5°	119.3	72.5	24.2	2.2	3.1	3.7	4.4	4.6
40°	85.8	43.5	8.7	2.0	2.8	3.9	4.6	4.8
42.5°	50.2	16.2	1.5	1.7	2.8	3.9	4.6	4.8
45°	14.4	1.7	0.9	1.7	2.8	3.9	4.8	5.0
47.5°	1.1	0.7	0.9	1.7	2.8	3.9	4.8	5.2
50°	0.7	0.7	0.7	1.7	2.8	4.1	5.0	5.2
52.5°	0.9	0.9	0.9	1.7	2.8	4.1	5.0	5.2
55°	0.9	0.9	0.9	1.7	2.8	4.1	5.0	5.2
57.5°	0.9	0.9	0.9	1.7	2.8	3.9	5.0	5.2
60°	0.9	0.9	0.9	1.5	2.6	3.9	4.8	5.0
62.5°	0.9	0.9	0.9	1.5	2.6	3.7	4.8	4.8
65°	0.9	0.9	0.9	1.3	2.4	3.5	4.4	4.6
67.5°	0.9	0.9	0.9	1.3	2.2	3.3	4.1	4.4
70°	0.7	0.9	0.9	1.1	2.0	3.1	3.9	4.1
72.5°	0.7	0.7	0.9	1.1	1.7	2.6	3.5	3.7
75°	0.7	0.7	0.7	0.9	1.5	2.4	3.1	3.3
77.5°	0.7	0.7	0.7	0.9	1.3	2.0	2.8	2.8
80°	0.4	0.7	0.7	0.7	1.1	1.5	2.2	2.4
82.5°	0.4	0.4	0.4	0.7	0.9	1.3	1.7	1.7
85°	0.4	0.4	0.4	0.4	0.7	0.9	1.1	1.1
87.5°	0.2	0.4	0.4	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)