

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: P1320033

Luminaire Tested: LDSQA3D09R659840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320033  
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: LDSQA3D09R659840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

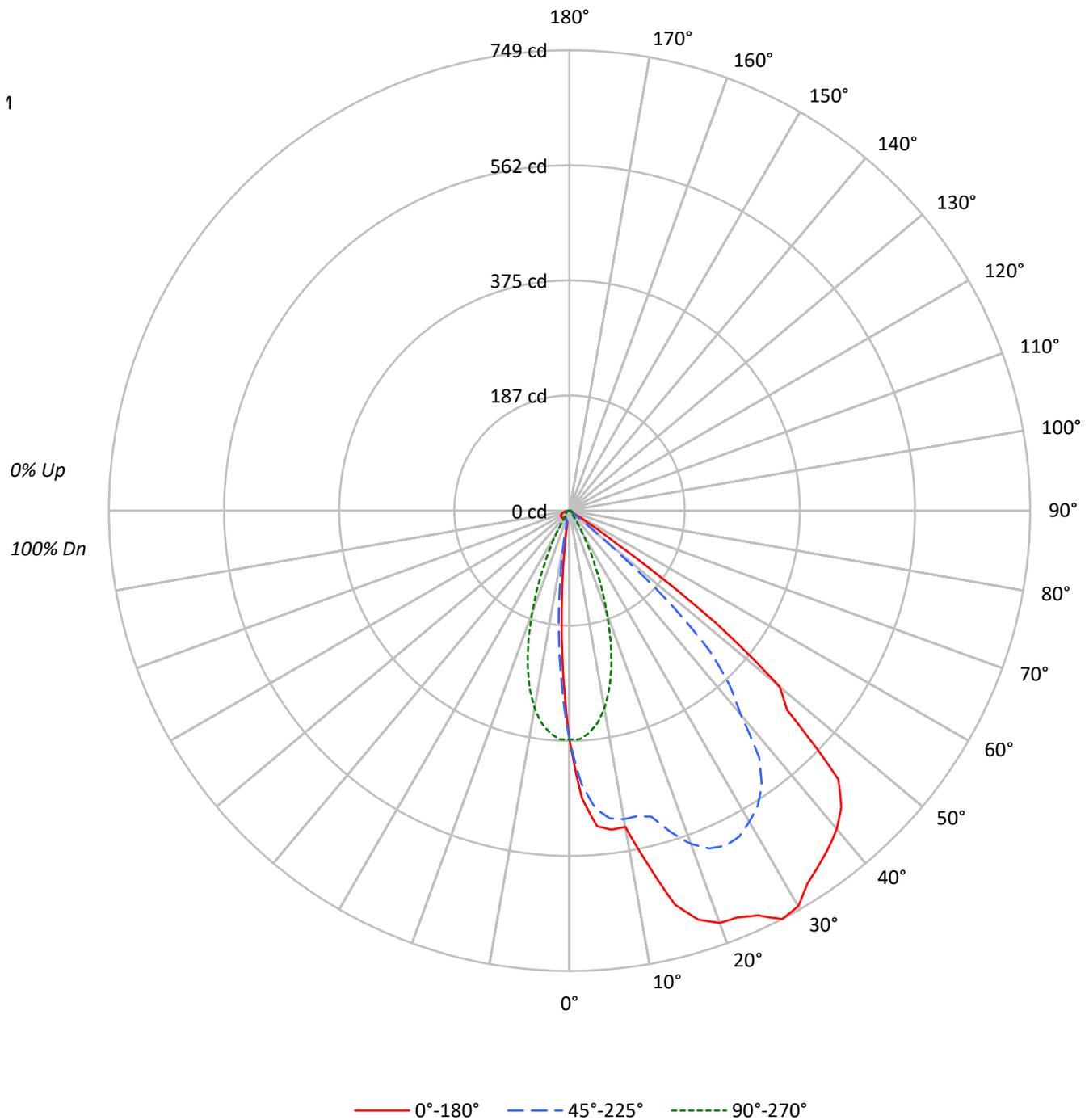
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 558.0 lumens  
Efficiency: N/A  
Efficacy: 50.7 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): 11  
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				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°	64118	64118	64118	64118	64118
5°	89120	84106	62756	34490	24255
10°	91375	89136	57098	9636	3550
15°	118390	91913	46732	3102	2995
20°	130822	105750	32513	2767	2877
25°	138073	114263	18395	2641	2869
30°	147837	116237	8313	2645	3003
35°	148370	114478	2691	2796	3301
40°	152001	97257	1821	2990	3642
45°	150544	78377	1827	3239	3946
50°	119470	18487	1876	3563	4501
55°	28375	1051	1922	3993	5044
60°	999	1206	2204	4202	5408
65°	1182	1182	2119	4483	5909
70°	856	1158	2065	4381	6143
75°	799	1131	1930	4658	6188
80°	595	1190	2281	4562	6347
85°	1186	2371	2371	4545	5730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 150836 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.1	5.6
10°-20°	81.8	14.7
20°-30°	128.5	23.0
30°-40°	147.0	26.3
40°-50°	118.2	21.2
50°-60°	38.5	6.9
60°-70°	6.8	1.2
70°-80°	4.5	0.8
80°-90°	1.6	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
0°-30°	241.4	43.3
0°-40°	388.4	69.6
0°-60°	545.1	97.7
0°-90°	558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	372	372	372	372	372	
5°	516	486	363	200	140	49
15°	664	516	262	17	17	185
25°	727	601	97	14	15	339
35°	706	544	13	13	16	443
45°	618	322	8	13	16	445
55°	94	4	6	13	17	135
65°	3	3	5	11	14	3
75°	1	2	3	7	9	1
85°	1	1	1	2	3	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°	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3
2.5°	468.5	466.8	469.1	465.1	464.5	460.4	458.1	456.9	451.7	444.8	438.4
5°	515.5	508.6	510.3	509.7	506.8	505.1	502.8	499.9	492.9	486.5	478.4
7.5°	523.6	517.8	519.0	519.6	517.8	517.2	516.7	515.5	510.9	505.1	498.1
10°	522.5	516.7	516.1	514.3	512.6	513.2	513.2	513.2	512.0	509.7	507.4
12.5°	589.7	581.6	579.9	567.7	556.7	537.5	525.4	513.8	508.6	509.1	507.4
15°	664.0	663.4	657.6	646.0	627.4	610.0	582.2	561.3	534.6	515.5	507.4
17.5°	697.6	697.0	691.8	681.9	668.6	652.4	632.1	607.7	578.1	548.6	524.2
20°	713.8	717.9	712.1	704.0	691.2	676.1	657.0	635.0	607.1	577.0	548.0
22.5°	716.1	721.4	716.1	710.3	701.1	691.2	675.0	652.4	623.9	595.0	566.5
25°	726.6	728.3	717.3	709.8	701.1	694.1	681.4	661.6	632.6	601.3	573.5
27.5°	749.2	741.7	718.5	708.0	699.9	693.5	681.4	661.1	629.7	597.9	568.9
30°	743.4	740.5	720.2	710.3	703.4	697.0	681.9	655.8	618.1	584.5	554.4
32.5°	719.6	725.4	718.5	715.0	711.5	703.4	681.4	646.0	603.7	569.4	528.8
35°	705.7	712.7	713.2	713.2	709.2	697.0	670.9	631.5	589.2	544.5	490.0
37.5°	691.8	697.6	701.1	703.4	697.6	680.2	647.1	611.8	565.4	506.8	411.1
40°	676.1	680.2	683.1	684.3	675.6	652.9	622.8	582.8	530.6	432.6	367.1
42.5°	654.1	656.4	655.8	655.3	646.0	621.0	592.6	550.9	447.7	385.6	306.2
45°	618.1	615.8	619.3	619.3	607.1	588.6	550.9	469.7	400.7	321.8	197.2
47.5°	479.0	480.7	497.5	524.8	541.6	536.4	485.4	411.1	336.9	211.1	65.5
50°	445.9	444.2	444.8	447.7	449.4	434.9	398.4	347.3	222.7	69.0	4.6
52.5°	299.2	301.0	314.3	345.0	354.9	344.4	309.7	232.0	81.2	4.6	4.1
55°	94.5	100.9	108.4	124.7	153.1	171.1	167.6	82.3	5.2	3.5	4.1
57.5°	3.5	3.5	4.6	8.1	15.7	25.5	26.7	5.2	4.1	4.1	4.1
60°	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5	3.5	3.5
62.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5	3.5
65°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5
67.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9	2.9	2.9
70°	1.7	1.7	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3
75°	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7
80°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3
2.5°	434.9	427.9	414.0	372.3	328.8	285.3	258.0	251.1
5°	469.1	461.0	441.3	363.0	274.9	199.5	156.6	140.3
7.5°	490.0	480.1	456.9	348.5	214.0	116.0	69.6	55.7
10°	499.3	490.6	464.5	326.5	154.8	55.1	24.4	20.3
12.5°	503.3	496.4	467.4	297.5	100.9	24.4	18.0	17.4
15°	505.1	497.5	466.2	262.1	57.4	17.4	16.8	16.8
17.5°	506.8	498.1	459.3	221.5	31.9	16.2	15.7	16.2
20°	520.7	495.8	447.1	177.4	20.9	15.1	15.1	15.7
22.5°	534.6	495.2	425.6	135.7	16.2	14.5	15.1	15.1
25°	539.3	489.4	398.4	96.8	13.9	13.9	14.5	15.1
27.5°	530.6	472.6	361.8	65.5	12.2	13.9	14.5	15.1
30°	510.3	444.2	317.8	41.8	11.6	13.3	14.5	15.1
32.5°	472.6	387.9	268.5	24.9	11.0	13.3	15.1	15.1
35°	397.2	325.3	212.8	12.8	11.0	13.3	15.1	15.7
37.5°	347.3	271.4	148.4	8.7	11.0	13.3	15.1	15.7
40°	288.2	196.0	62.0	8.1	11.0	13.3	15.1	16.2
42.5°	199.5	85.2	9.9	7.5	10.4	13.3	15.7	16.2
45°	71.9	11.0	4.6	7.5	10.4	13.3	15.7	16.2
47.5°	6.4	4.1	4.6	7.5	10.4	13.3	15.7	16.8
50°	4.1	4.1	4.1	7.0	10.4	13.3	15.7	16.8
52.5°	4.1	4.1	4.1	7.0	9.9	13.3	16.2	16.8
55°	4.1	4.1	4.1	6.4	9.9	13.3	15.7	16.8
57.5°	4.1	4.1	4.6	6.4	9.9	12.8	15.7	16.2
60°	4.1	4.1	4.1	6.4	9.3	12.2	15.1	15.7
62.5°	3.5	4.1	4.1	5.8	8.7	11.6	14.5	15.1
65°	3.5	3.5	4.1	5.2	8.1	11.0	13.3	14.5
67.5°	2.9	3.5	3.5	4.6	7.0	9.9	12.2	13.3
70°	2.9	2.9	2.9	4.1	6.4	8.7	11.6	12.2
72.5°	2.3	2.9	2.9	3.5	5.2	7.5	9.9	11.0
75°	2.3	2.3	2.3	2.9	4.6	7.0	8.7	9.3
77.5°	1.7	1.7	2.3	2.3	4.1	5.2	7.5	8.1
80°	1.7	1.7	1.7	2.3	2.9	4.6	5.8	6.4
82.5°	1.2	1.2	1.2	1.7	2.3	2.9	4.1	4.6
85°	1.2	1.2	1.2	1.2	1.7	2.3	2.9	2.9
87.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)