

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: P1316323

Luminaire Tested: LDSQA3D05R559740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316323  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R559740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

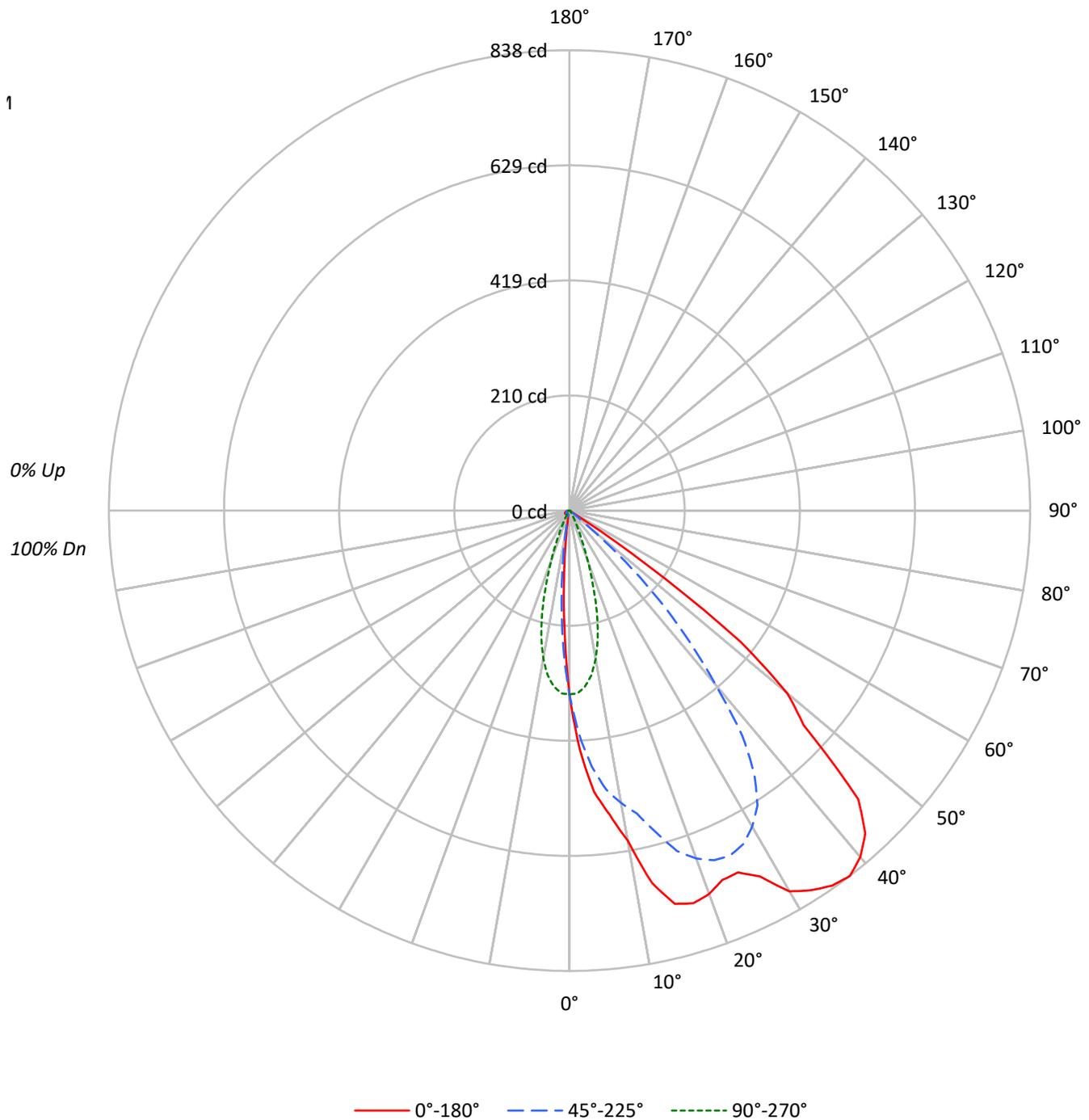
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 558.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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	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	102	103	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	89	83	78	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	57591	57591	57591	57591	57591
5°	88826	80856	55633	28577	18775
10°	106711	94505	47899	7205	2886
15°	132137	107942	34215	1979	1551
20°	136100	123473	17686	1338	1338
25°	138073	131536	7088	1197	1387
30°	159132	132146	3082	1253	1452
35°	175176	123204	1325	1325	1640
40°	185027	92739	764	1529	1754
45°	180989	56676	706	1656	2119
50°	138440	12084	777	1956	2465
55°	50804	450	871	2192	2762
60°	517	517	999	2514	3169
65°	611	611	1182	2567	3342
70°	504	755	1209	2921	3928
75°	333	665	1264	3194	4525
80°	496	992	1488	3372	4761
85°	0	988	1976	3754	4742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 180989 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.4	5.3
10°-20°	84.3	15.1
20°-30°	129.3	23.2
30°-40°	150.7	27.0
40°-50°	120.4	21.6
50°-60°	35.7	6.4
60°-70°	3.8	0.7
70°-80°	3.0	0.5
80°-90°	1.3	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°	243.1	43.6
0°-40°	393.8	70.6
0°-60°	549.9	98.5
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°	334	334	334	334	334	
5°	514	468	322	165	109	51
15°	741	605	192	11	9	205
25°	727	692	37	6	7	345
35°	833	586	6	6	8	519
45°	743	233	3	7	9	536
55°	169	2	3	7	9	179
65°	2	2	3	6	8	1
75°	0	1	2	5	7	1
85°	0	0	1	2	2	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°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	436.2	436.2	434.8	435.3	434.3	429.0	428.0	421.2	415.4	409.1	403.8
5°	513.8	514.8	513.3	510.4	506.5	502.6	494.4	488.1	479.9	467.7	456.6
7.5°	557.9	556.9	554.5	553.5	551.1	546.7	540.9	534.1	524.5	512.3	499.2
10°	610.2	602.0	599.6	595.7	587.9	579.2	569.0	559.8	551.6	540.4	526.4
12.5°	694.6	693.1	683.4	676.2	665.5	646.1	628.7	608.3	584.1	564.7	546.3
15°	741.1	742.1	737.7	731.9	725.1	709.1	691.7	667.9	639.3	605.4	575.3
17.5°	749.4	750.8	748.4	746.0	744.0	734.8	724.1	707.2	681.0	649.5	604.9
20°	742.6	745.5	746.0	748.9	752.7	748.9	740.1	728.5	706.7	673.7	631.1
22.5°	727.5	732.9	736.8	746.9	757.1	757.1	751.8	742.6	721.2	688.8	645.1
25°	726.6	727.5	729.0	745.5	761.5	764.9	760.0	750.3	727.1	692.2	644.7
27.5°	750.8	744.5	734.8	751.3	770.2	773.1	766.3	753.2	725.6	684.4	628.2
30°	800.2	786.2	765.8	778.0	791.0	787.6	774.1	753.2	715.9	664.5	597.2
32.5°	819.2	811.4	804.1	817.2	819.6	805.6	781.3	750.3	700.4	636.4	546.3
35°	833.2	833.7	830.8	833.2	821.6	801.7	775.0	734.3	671.3	586.0	478.9
37.5°	838.1	839.0	832.7	824.0	806.5	783.8	751.8	705.2	622.8	516.7	377.1
40°	823.0	820.1	809.9	797.8	778.9	755.7	720.8	651.4	550.6	412.5	294.2
42.5°	796.4	791.5	779.4	764.9	745.0	715.4	659.7	575.8	447.4	321.8	206.0
45°	743.1	739.7	724.6	714.0	690.2	651.9	580.2	474.5	346.1	232.7	119.2
47.5°	577.3	577.8	589.4	594.7	586.5	556.0	471.6	360.6	252.5	138.6	40.2
50°	516.7	514.3	502.6	486.6	460.0	414.4	346.1	255.0	149.3	45.1	5.8
52.5°	392.1	392.1	386.3	378.1	350.0	305.8	234.1	141.0	52.3	7.8	1.5
55°	169.2	160.4	165.3	174.5	167.2	145.4	109.5	42.2	9.2	1.5	1.5
57.5°	2.4	5.8	8.7	14.1	18.9	22.8	12.1	4.4	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.0	1.0	1.0	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	396.0	387.8	374.2	333.0	290.3	251.1	223.0	212.3
5°	444.0	429.0	406.2	321.8	237.0	165.3	124.6	108.6
7.5°	481.8	462.4	429.4	302.5	174.0	88.2	52.8	41.7
10°	507.0	485.7	442.5	273.9	115.4	41.2	19.9	16.5
12.5°	525.4	498.8	447.4	237.0	67.9	18.9	10.7	9.7
15°	539.0	504.6	441.6	191.9	37.3	11.1	8.7	8.7
17.5°	557.9	507.5	427.5	141.5	21.3	8.2	8.2	8.2
20°	572.4	507.5	400.9	96.5	13.1	7.3	7.3	7.3
22.5°	579.7	499.7	368.4	61.1	9.2	6.8	7.3	7.3
25°	572.4	480.8	326.7	37.3	7.3	6.3	6.8	7.3
27.5°	545.8	443.0	270.9	23.8	5.8	6.3	6.8	7.3
30°	501.2	388.2	207.9	15.5	5.3	6.3	6.8	7.3
32.5°	438.2	306.8	134.7	10.2	4.8	6.3	6.8	7.3
35°	342.2	217.1	81.4	6.3	4.8	6.3	7.3	7.8
37.5°	256.4	144.9	44.1	3.9	4.8	6.3	7.3	7.8
40°	177.9	84.3	18.9	3.4	4.8	6.8	7.8	7.8
42.5°	103.2	33.4	4.8	2.9	4.8	6.8	7.8	8.2
45°	37.8	6.8	1.5	2.9	5.3	6.8	7.8	8.7
47.5°	5.3	1.5	1.5	2.9	5.3	6.8	8.2	8.7
50°	1.5	1.5	1.5	2.9	5.3	7.3	8.7	9.2
52.5°	1.5	1.5	1.5	2.9	5.3	7.3	8.7	9.2
55°	1.5	1.5	1.5	2.9	5.3	7.3	8.7	9.2
57.5°	1.5	1.5	1.5	2.9	5.3	7.3	8.7	9.2
60°	1.5	1.5	1.5	2.9	4.8	7.3	8.7	9.2
62.5°	1.5	1.5	1.5	2.9	4.8	6.8	8.2	8.7
65°	1.5	1.5	1.5	2.9	4.4	6.3	8.2	8.2
67.5°	1.5	1.5	1.5	2.4	4.4	6.3	7.8	8.2
70°	1.5	1.5	1.5	2.4	3.9	5.8	7.3	7.8
72.5°	1.5	1.5	1.5	1.9	3.4	5.3	6.8	7.3
75°	1.0	1.5	1.5	1.9	3.4	4.8	6.3	6.8
77.5°	1.0	1.5	1.5	1.5	2.9	3.9	5.3	5.8
80°	1.0	1.0	1.5	1.5	2.4	3.4	4.4	4.8
82.5°	1.0	1.0	1.0	1.5	1.9	2.4	3.4	3.4
85°	1.0	1.0	1.0	1.0	1.5	1.9	2.4	2.4
87.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)