

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: P1315342

Luminaire Tested: LDSQA3D05R509735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315342  
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: LDSQA3D05R509735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

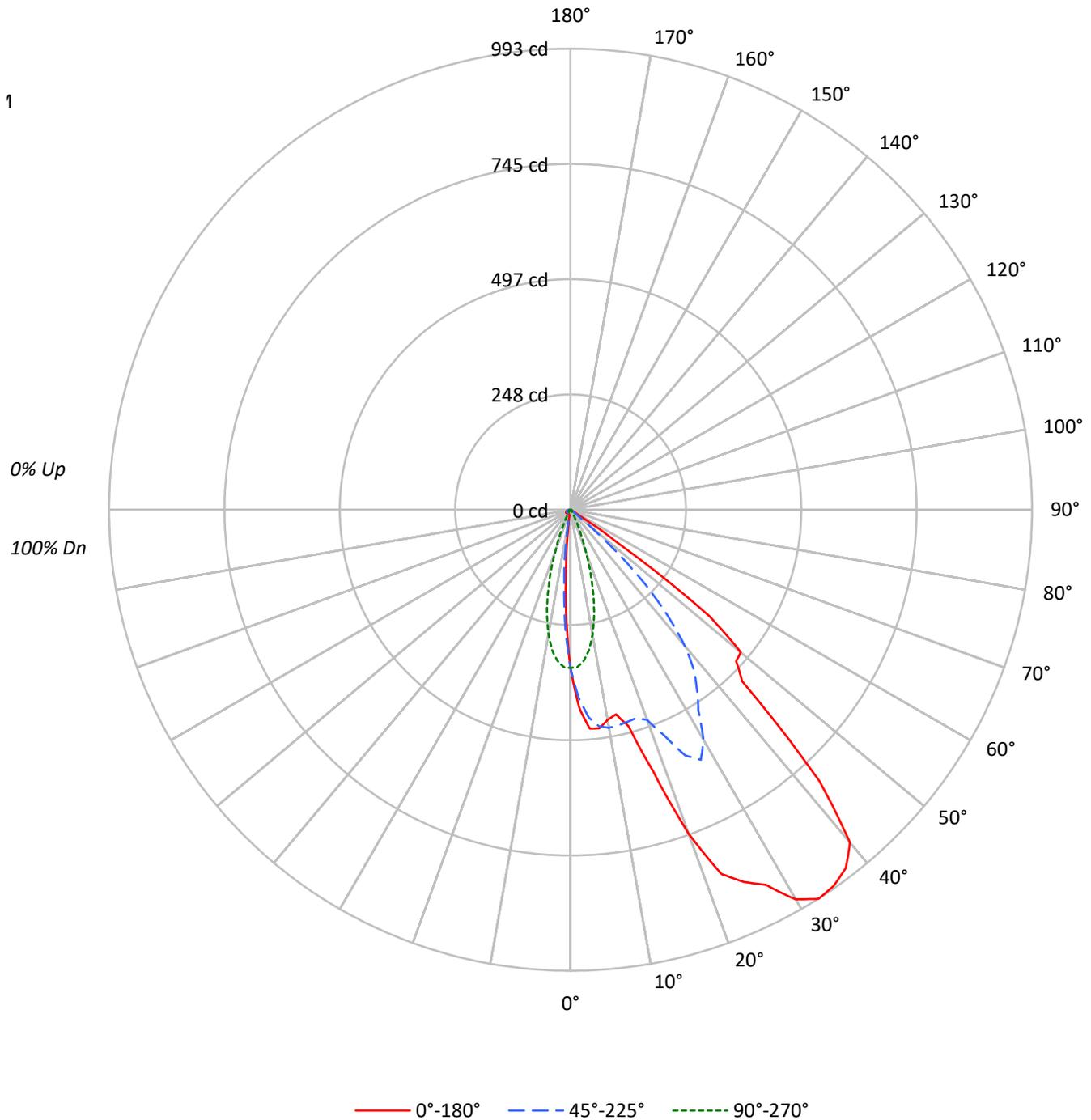
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 530.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 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): 7.2  
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	50	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	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	58676	58676	58676	58676	58676
5°	81824	77623	56411	27108	17599
10°	80322	83417	47672	5719	2448
15°	86136	84299	33698	1997	1908
20°	136027	88284	17796	1704	1796
25°	168079	110881	7088	1596	1767
30°	192701	113711	2884	1571	1849
35°	207764	99803	1282	1661	2060
40°	210297	85949	944	1888	2316
45°	127114	55702	901	2046	2606
50°	128071	9619	991	2385	3001
55°	37833	570	1111	2672	3363
60°	654	654	1137	2893	3686
65°	571	571	1141	3056	3994
70°	705	705	1158	3273	4482
75°	599	599	1264	3394	4658
80°	496	893	1389	3273	5058
85°	988	1778	1778	3754	4545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 145186 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	5.2
10°-20°	68.4	12.9
20°-30°	128.2	24.2
30°-40°	153.2	28.9
40°-50°	109.8	20.7
50°-60°	33.9	6.4
60°-70°	4.4	0.8
70°-80°	3.2	0.6
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°	224.1	42.3
0°-40°	377.4	71.2
0°-60°	521.1	98.3
0°-90°	530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	341	341	341	341	341	
5°	473	449	326	157	102	44
15°	483	473	189	11	11	155
25°	884	584	37	8	9	408
35°	988	475	6	8	10	613
45°	522	229	4	8	11	479
55°	126	2	4	9	11	162
65°	1	1	3	8	10	2
75°	1	1	2	5	7	1
85°	0	1	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°	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7
2.5°	426.2	427.1	428.5	424.8	422.4	420.6	417.3	416.4	408.4	405.2	401.9
5°	473.3	472.4	473.3	471.9	471.0	468.2	465.4	460.7	455.6	449.0	441.6
7.5°	474.7	473.8	475.6	475.6	477.5	477.5	477.5	478.0	475.2	470.5	464.0
10°	459.3	459.3	461.2	460.2	463.5	464.9	468.2	473.8	476.6	477.0	475.2
12.5°	451.4	451.4	451.8	450.0	450.9	452.3	456.0	462.6	469.1	475.6	479.4
15°	483.1	484.0	477.5	468.2	461.2	453.7	451.4	455.6	462.6	472.8	481.2
17.5°	590.9	592.3	585.3	562.9	541.5	510.7	483.1	469.6	462.1	470.5	481.7
20°	742.2	737.0	724.9	701.1	669.8	622.2	579.3	535.9	494.3	481.7	485.4
22.5°	849.1	847.2	837.4	810.8	783.7	739.4	684.8	624.1	563.9	525.6	505.5
25°	884.5	883.1	874.3	858.4	843.5	809.9	760.8	699.7	636.7	583.5	533.1
27.5°	911.1	909.3	895.3	877.5	862.1	828.1	783.2	737.0	679.2	607.3	529.8
30°	969.0	963.9	944.3	912.5	883.1	836.0	786.5	729.1	650.7	571.8	496.2
32.5°	993.3	990.5	973.7	948.0	915.8	854.2	779.0	682.9	579.7	511.6	456.5
35°	988.2	984.0	966.7	937.3	898.1	838.8	738.4	606.3	522.3	474.7	412.6
37.5°	972.8	966.7	946.2	911.6	864.0	786.5	655.4	544.3	490.1	436.4	352.9
40°	935.4	925.6	901.8	865.9	818.3	716.5	579.7	506.9	456.5	382.3	286.1
42.5°	792.6	787.4	799.1	793.0	751.0	631.1	526.1	472.8	403.3	309.0	207.2
45°	521.9	530.7	551.7	587.7	596.1	542.9	482.2	416.8	331.9	228.7	119.5
47.5°	483.1	481.2	486.4	493.4	494.8	472.4	417.3	344.5	246.5	130.7	33.1
50°	478.0	475.2	471.0	462.6	444.8	401.4	338.9	251.1	142.4	35.9	2.3
52.5°	377.6	374.8	374.8	362.7	339.8	297.8	233.9	138.2	39.7	2.3	1.9
55°	126.0	134.4	133.0	132.6	142.8	131.6	100.8	35.5	3.3	1.9	1.9
57.5°	2.3	2.3	2.3	4.2	6.5	9.3	5.6	2.8	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
77.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
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°	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7
2.5°	394.4	387.9	375.3	339.3	299.7	254.4	223.6	219.9
5°	429.9	420.1	399.6	326.3	235.7	156.8	116.7	101.8
7.5°	453.2	440.2	415.0	304.8	171.8	82.6	44.3	35.5
10°	467.2	455.1	422.9	272.6	109.2	32.7	14.9	14.0
12.5°	474.7	463.0	425.7	233.9	61.6	14.9	11.7	11.7
15°	479.8	467.2	421.5	189.0	30.8	11.2	10.7	10.7
17.5°	482.2	466.8	409.4	142.4	16.3	10.3	10.3	10.3
20°	483.6	461.6	387.0	97.1	11.2	9.3	9.8	9.8
22.5°	485.0	449.0	357.5	61.6	8.9	8.9	9.3	9.3
25°	482.2	427.1	316.0	37.3	7.9	8.4	8.9	9.3
27.5°	462.1	394.0	265.6	22.9	7.0	7.9	8.9	9.3
30°	427.6	345.4	207.2	14.5	6.5	7.9	8.9	9.3
32.5°	382.8	289.9	148.0	8.9	6.5	7.9	8.9	9.3
35°	322.5	221.7	96.2	6.1	6.5	7.9	9.3	9.8
37.5°	254.9	155.0	51.8	4.7	6.5	7.9	9.3	9.8
40°	183.4	92.9	18.7	4.2	6.1	8.4	9.8	10.3
42.5°	107.4	34.5	3.3	3.7	6.1	8.4	9.8	10.3
45°	30.8	3.7	1.9	3.7	6.1	8.4	10.3	10.7
47.5°	2.3	1.4	1.9	3.7	6.1	8.4	10.3	11.2
50°	1.4	1.4	1.4	3.7	6.1	8.9	10.7	11.2
52.5°	1.9	1.9	1.9	3.7	6.1	8.9	10.7	11.2
55°	1.9	1.9	1.9	3.7	6.1	8.9	10.7	11.2
57.5°	1.9	1.9	1.9	3.7	6.1	8.4	10.7	11.2
60°	1.9	1.9	1.9	3.3	5.6	8.4	10.3	10.7
62.5°	1.9	1.9	1.9	3.3	5.6	7.9	10.3	10.3
65°	1.9	1.9	1.9	2.8	5.1	7.5	9.3	9.8
67.5°	1.9	1.9	1.9	2.8	4.7	7.0	8.9	9.3
70°	1.4	1.9	1.9	2.3	4.2	6.5	8.4	8.9
72.5°	1.4	1.4	1.9	2.3	3.7	5.6	7.5	7.9
75°	1.4	1.4	1.4	1.9	3.3	5.1	6.5	7.0
77.5°	1.4	1.4	1.4	1.9	2.8	4.2	6.1	6.1
80°	0.9	1.4	1.4	1.4	2.3	3.3	4.7	5.1
82.5°	0.9	0.9	0.9	1.4	1.9	2.8	3.7	3.7
85°	0.9	0.9	0.9	0.9	1.4	1.9	2.3	2.3
87.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)