

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: P1319871

Luminaire Tested: LDSQA3D05R559840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319871  
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: LDSQA3D05R559840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

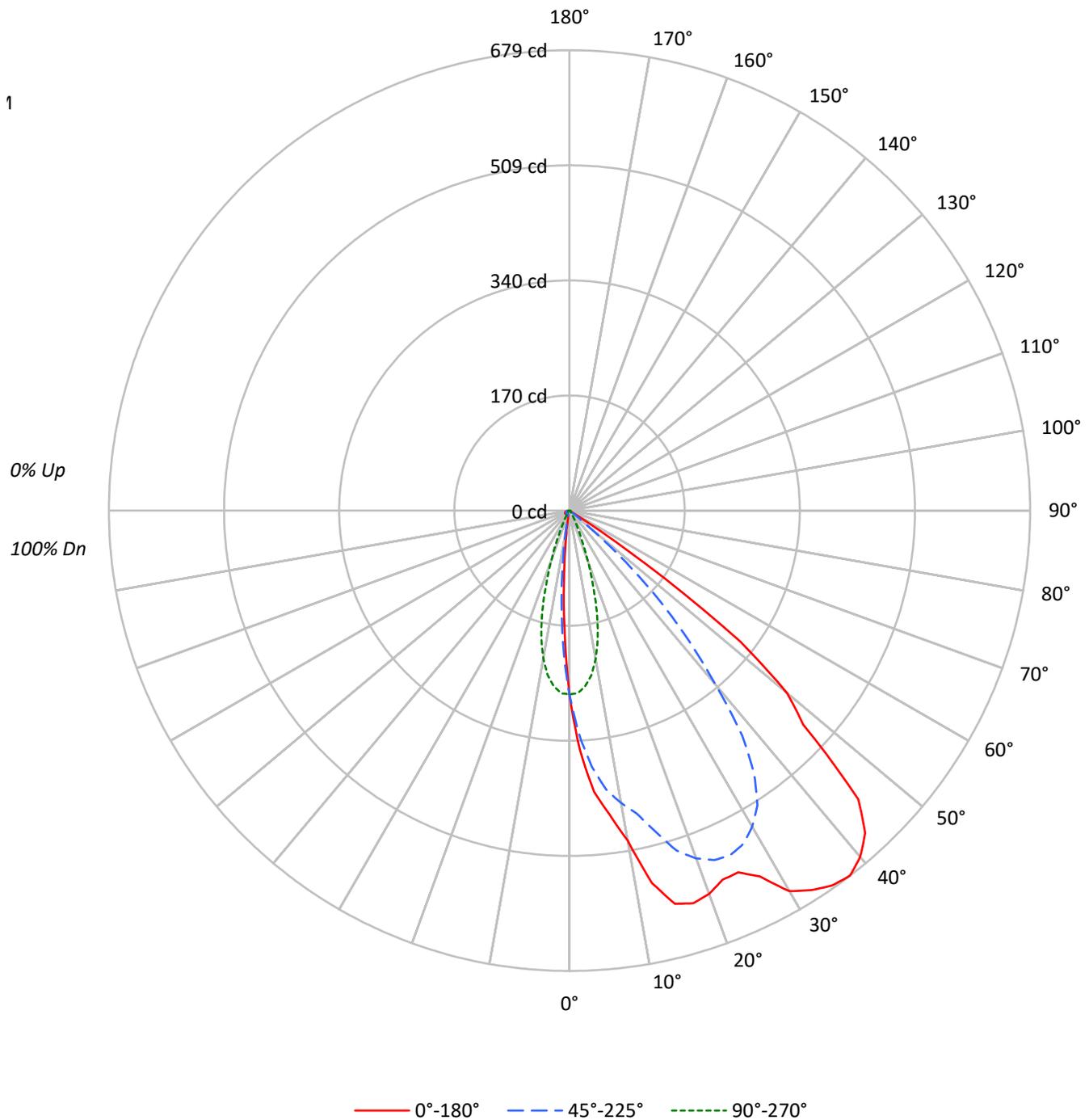
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 452.0 lumens  
Efficiency: N/A  
Efficacy: 62.8 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	46655	46655	46655	46655	46655
5°	71953	65504	45070	23149	15196
10°	86443	76562	38788	5841	2326
15°	107032	87437	27725	1605	1266
20°	110240	100032	14314	1081	1081
25°	111831	106548	5739	969	1121
30°	128905	107049	2506	1014	1173
35°	141894	99803	1072	1072	1325
40°	149888	75113	607	1237	1416
45°	146599	45911	585	1340	1729
50°	112129	9779	643	1581	2009
55°	41136	360	721	1772	2252
60°	413	413	827	2032	2583
65°	489	489	978	2078	2730
70°	403	604	1007	2367	3172
75°	266	532	1065	2595	3660
80°	397	793	1190	2678	3868
85°	0	790	1581	3162	3952

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 146599 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.9	5.3
10°-20°	68.3	15.1
20°-30°	104.8	23.2
30°-40°	122.1	27.0
40°-50°	97.6	21.6
50°-60°	28.9	6.4
60°-70°	3.1	0.7
70°-80°	2.4	0.5
80°-90°	1.0	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°	196.9	43.6
0°-40°	319.0	70.6
0°-60°	445.5	98.5
0°-90°	452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	271	271	271	271	271	
5°	416	379	261	134	88	41
15°	600	490	156	9	7	166
25°	588	561	30	5	6	280
35°	675	475	5	5	6	420
45°	602	188	2	6	7	434
55°	137	1	2	6	8	145
65°	1	1	2	5	7	1
75°	0	1	2	4	6	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°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9
2.5°	353.4	353.4	352.2	352.6	351.8	347.5	346.7	341.2	336.5	331.4	327.1
5°	416.2	417.0	415.8	413.4	410.3	407.2	400.5	395.4	388.7	378.9	369.9
7.5°	451.9	451.1	449.2	448.4	446.4	442.9	438.2	432.7	424.8	415.0	404.4
10°	494.3	487.6	485.7	482.5	476.3	469.2	460.9	453.5	446.8	437.8	426.4
12.5°	562.6	561.5	553.6	547.7	539.1	523.4	509.2	492.7	473.1	457.4	442.5
15°	600.3	601.1	597.6	592.9	587.4	574.4	560.3	541.0	517.9	490.4	466.0
17.5°	607.0	608.2	606.2	604.3	602.7	595.2	586.6	572.8	551.6	526.1	490.0
20°	601.5	603.9	604.3	606.6	609.8	606.6	599.5	590.1	572.5	545.8	511.2
22.5°	589.3	593.7	596.8	605.0	613.3	613.3	609.0	601.5	584.2	557.9	522.6
25°	588.5	589.3	590.5	603.9	616.8	619.6	615.6	607.8	588.9	560.7	522.2
27.5°	608.2	603.1	595.2	608.6	623.9	626.2	620.7	610.1	587.8	554.4	508.8
30°	648.2	636.8	620.4	630.2	640.8	638.0	627.0	610.1	579.9	538.3	483.7
32.5°	663.5	657.3	651.4	662.0	663.9	652.5	632.9	607.8	567.3	515.5	442.5
35°	674.9	675.3	673.0	674.9	665.5	649.4	627.8	594.8	543.8	474.7	387.9
37.5°	678.9	679.6	674.5	667.5	653.3	634.9	609.0	571.3	504.5	418.5	305.5
40°	666.7	664.3	656.1	646.3	631.0	612.1	583.8	527.7	446.0	334.1	238.3
42.5°	645.1	641.2	631.3	619.6	603.5	579.5	534.4	466.4	362.4	260.7	166.9
45°	601.9	599.2	587.0	578.3	559.1	528.1	470.0	384.4	280.3	188.5	96.6
47.5°	467.6	468.0	477.4	481.8	475.1	450.3	382.0	292.1	204.6	112.3	32.6
50°	418.5	416.6	407.2	394.2	372.6	335.7	280.3	206.5	120.9	36.5	4.7
52.5°	317.6	317.6	312.9	306.2	283.5	247.7	189.6	114.3	42.4	6.3	1.2
55°	137.0	130.0	133.9	141.3	135.5	117.8	88.7	34.2	7.5	1.2	1.2
57.5°	2.0	4.7	7.1	11.4	15.3	18.5	9.8	3.5	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	0.8	0.8	0.8	1.2	0.8	1.2	1.2	1.2	1.2	1.2	1.2
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	270.9	270.9	270.9	270.9	270.9	270.9	270.9	270.9
2.5°	320.8	314.1	303.1	269.7	235.2	203.4	180.6	172.0
5°	359.6	347.5	329.0	260.7	192.0	133.9	100.9	87.9
7.5°	390.3	374.6	347.9	245.0	141.0	71.5	42.8	33.8
10°	410.7	393.4	358.5	221.8	93.4	33.4	16.1	13.3
12.5°	425.6	404.0	362.4	192.0	55.0	15.3	8.6	7.9
15°	436.6	408.7	357.7	155.5	30.2	9.0	7.1	7.1
17.5°	451.9	411.1	346.3	114.6	17.3	6.7	6.7	6.7
20°	463.7	411.1	324.7	78.1	10.6	5.9	5.9	5.9
22.5°	469.6	404.8	298.4	49.5	7.5	5.5	5.9	5.9
25°	463.7	389.5	264.6	30.2	5.9	5.1	5.5	5.9
27.5°	442.1	358.9	219.5	19.2	4.7	5.1	5.5	5.9
30°	406.0	314.5	168.4	12.6	4.3	5.1	5.5	5.9
32.5°	354.9	248.5	109.2	8.2	3.9	5.1	5.5	5.9
35°	277.2	175.9	66.0	5.1	3.9	5.1	5.9	6.3
37.5°	207.7	117.4	35.7	3.1	3.9	5.1	5.9	6.3
40°	144.1	68.3	15.3	2.7	3.9	5.5	6.3	6.3
42.5°	83.6	27.1	3.9	2.4	3.9	5.5	6.3	6.7
45°	30.6	5.5	1.2	2.4	4.3	5.5	6.3	7.1
47.5°	4.3	1.2	1.2	2.4	4.3	5.5	6.7	7.1
50°	1.2	1.2	1.2	2.4	4.3	5.9	7.1	7.5
52.5°	1.2	1.2	1.2	2.4	4.3	5.9	7.1	7.5
55°	1.2	1.2	1.2	2.4	4.3	5.9	7.1	7.5
57.5°	1.2	1.2	1.2	2.4	4.3	5.9	7.1	7.5
60°	1.2	1.2	1.2	2.4	3.9	5.9	7.1	7.5
62.5°	1.2	1.2	1.2	2.4	3.9	5.5	6.7	7.1
65°	1.2	1.2	1.2	2.4	3.5	5.1	6.7	6.7
67.5°	1.2	1.2	1.2	2.0	3.5	5.1	6.3	6.7
70°	1.2	1.2	1.2	2.0	3.1	4.7	5.9	6.3
72.5°	1.2	1.2	1.2	1.6	2.7	4.3	5.5	5.9
75°	0.8	1.2	1.2	1.6	2.7	3.9	5.1	5.5
77.5°	0.8	1.2	1.2	1.2	2.4	3.1	4.3	4.7
80°	0.8	0.8	1.2	1.2	2.0	2.7	3.5	3.9
82.5°	0.8	0.8	0.8	1.2	1.6	2.0	2.7	2.7
85°	0.8	0.8	0.8	0.8	1.2	1.6	2.0	2.0
87.5°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)