

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: P1306877

Luminaire Tested: LDSQA3D05R509024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306877
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: LDSQA3D05R509024DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

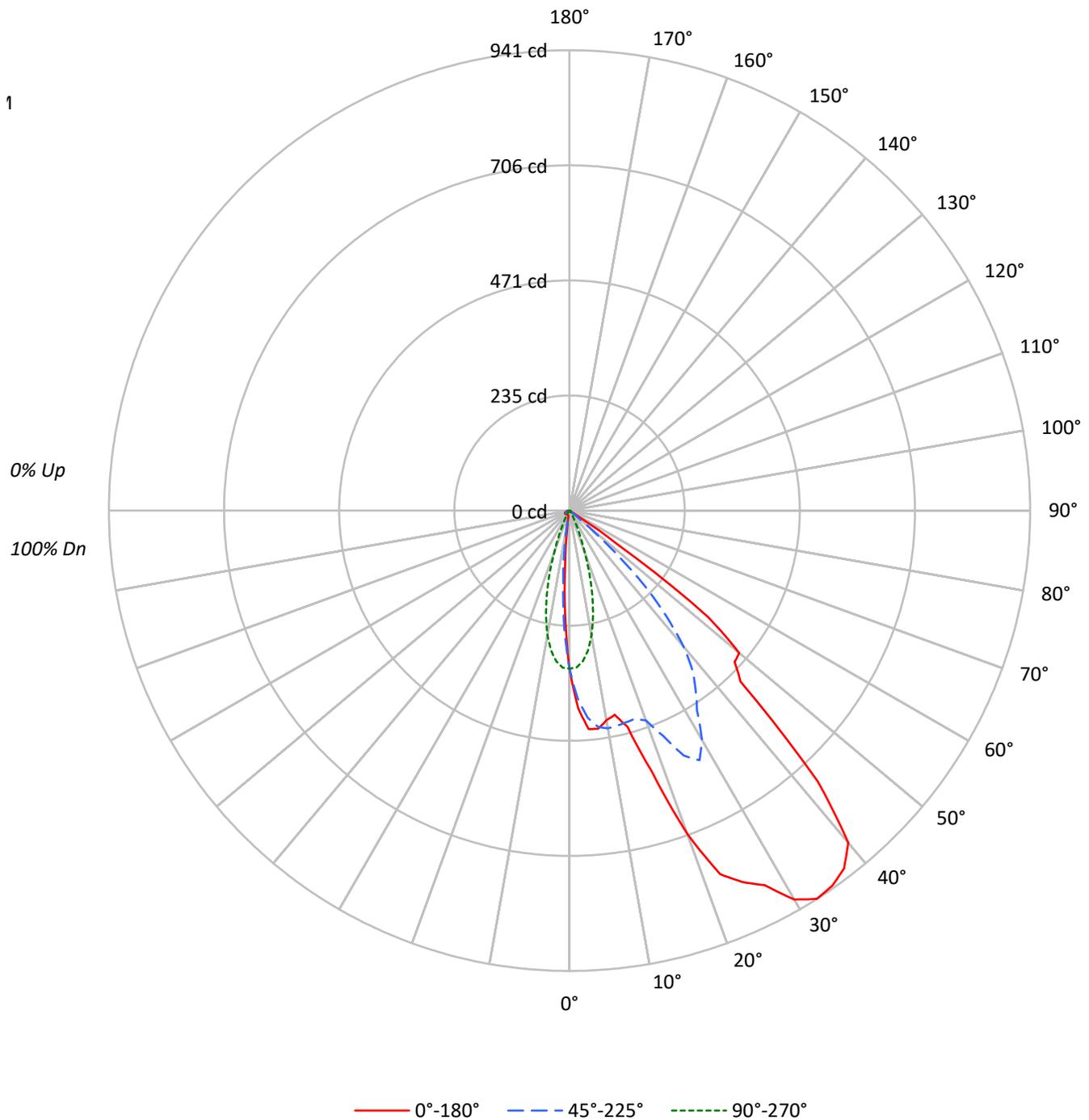
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 502.0 lumens
Efficiency: N/A
Efficacy: 69.7 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_{in}): 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	110	107	104	101	102	100	98	99	97	95	95	94	93	93	93	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	83	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	74	74	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	67	67	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	60	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	54	54	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	41	41	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	37	37	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	55576	55576	55576	55576	55576
5°	77502	73526	53420	25690	16666
10°	76073	79011	45154	5404	2326
15°	81589	79860	31933	1890	1819
20°	128843	83629	16861	1613	1704
25°	159204	105009	6727	1520	1672
30°	182519	107706	2724	1491	1750
35°	196789	94526	1198	1577	1955
40°	199191	81408	899	1799	2181
45°	120392	52755	852	1948	2484
50°	121292	9110	938	2251	2840
55°	35851	540	1051	2522	3183
60°	620	620	1068	2756	3513
65°	530	530	1100	2893	3790
70°	655	655	1108	3122	4230
75°	599	599	1198	3261	4392
80°	397	893	1289	3075	4860
85°	790	1778	1778	3557	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 137514 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	5.2
10°-20°	64.8	12.9
20°-30°	121.4	24.2
30°-40°	145.1	28.9
40°-50°	104.0	20.7
50°-60°	32.1	6.4
60°-70°	4.2	0.8
70°-80°	3.0	0.6
80°-90°	1.2	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°	212.3	42.3
0°-40°	357.4	71.2
0°-60°	493.5	98.3
0°-90°	502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	323	323	323	323	323	
5°	448	425	309	149	96	42
15°	458	448	179	11	10	147
25°	838	553	35	8	9	386
35°	936	450	6	8	9	581
45°	494	217	4	8	10	454
55°	119	2	4	8	11	154
65°	1	1	3	7	9	1
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°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	403.7	404.5	405.9	402.3	400.1	398.3	395.2	394.4	386.8	383.8	380.7
5°	448.3	447.4	448.3	447.0	446.1	443.4	440.8	436.4	431.5	425.3	418.2
7.5°	449.6	448.7	450.5	450.5	452.3	452.3	452.3	452.7	450.1	445.7	439.5
10°	435.0	435.0	436.8	435.9	439.0	440.3	443.4	448.7	451.4	451.8	450.1
12.5°	427.5	427.5	428.0	426.2	427.1	428.4	431.9	438.1	444.3	450.5	454.1
15°	457.6	458.5	452.3	443.4	436.8	429.7	427.5	431.5	438.1	447.9	455.8
17.5°	559.7	561.0	554.4	533.2	512.9	483.7	457.6	444.8	437.7	445.7	456.3
20°	703.0	698.1	686.6	664.1	634.4	589.3	548.7	507.5	468.2	456.3	459.8
22.5°	804.2	802.4	793.2	768.0	742.3	700.3	648.6	591.1	534.1	497.8	478.8
25°	837.8	836.5	828.1	813.0	798.9	767.1	720.6	662.7	603.0	552.6	504.9
27.5°	863.0	861.2	848.0	831.2	816.6	784.3	741.9	698.1	643.3	575.2	501.8
30°	917.8	913.0	894.4	864.3	836.5	791.8	745.0	690.6	616.3	541.6	470.0
32.5°	940.8	938.2	922.2	897.9	867.4	809.1	737.9	646.8	549.1	484.6	432.4
35°	936.0	932.0	915.6	887.8	850.6	794.5	699.4	574.3	494.7	449.6	390.8
37.5°	921.4	915.6	896.2	863.4	818.4	745.0	620.7	515.5	464.2	413.4	334.2
40°	886.0	876.7	854.2	820.1	775.0	678.6	549.1	480.1	432.4	362.1	271.0
42.5°	750.7	745.8	756.9	751.2	711.4	597.7	498.3	447.9	382.0	292.7	196.3
45°	494.3	502.7	522.6	556.6	564.6	514.2	456.7	394.8	314.3	216.6	113.2
47.5°	457.6	455.8	460.7	467.3	468.6	447.4	395.2	326.3	233.4	123.8	31.4
50°	452.7	450.1	446.1	438.1	421.3	380.2	321.0	237.9	134.8	34.0	2.2
52.5°	357.7	355.0	355.0	343.5	321.9	282.1	221.5	130.9	37.6	2.2	1.8
55°	119.4	127.3	126.0	125.6	135.3	124.7	95.5	33.6	3.1	1.8	1.8
57.5°	2.2	2.2	2.2	4.0	6.2	8.8	5.3	2.7	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3
77.5°	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
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°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	373.6	367.4	355.5	321.4	283.8	241.0	211.8	208.2
5°	407.2	397.9	378.4	309.0	223.3	148.6	110.5	96.4
7.5°	429.3	416.9	393.0	288.7	162.7	78.3	42.0	33.6
10°	442.6	431.1	400.6	258.2	103.5	30.9	14.1	13.3
12.5°	449.6	438.6	403.2	221.5	58.4	14.1	11.1	11.1
15°	454.5	442.6	399.2	179.1	29.2	10.6	10.2	10.2
17.5°	456.7	442.1	387.7	134.8	15.5	9.7	9.7	9.7
20°	458.0	437.3	366.5	92.0	10.6	8.8	9.3	9.3
22.5°	459.4	425.3	338.7	58.4	8.4	8.4	8.8	8.8
25°	456.7	404.5	299.3	35.4	7.5	8.0	8.4	8.8
27.5°	437.7	373.1	251.6	21.7	6.6	7.5	8.4	8.8
30°	405.0	327.2	196.3	13.7	6.2	7.5	8.4	8.8
32.5°	362.5	274.6	140.2	8.4	6.2	7.5	8.4	8.8
35°	305.5	210.0	91.1	5.7	6.2	7.5	8.8	9.3
37.5°	241.4	146.8	49.1	4.4	6.2	7.5	8.8	9.3
40°	173.8	88.0	17.7	4.0	5.7	8.0	9.3	9.7
42.5°	101.7	32.7	3.1	3.5	5.7	8.0	9.3	9.7
45°	29.2	3.5	1.8	3.5	5.7	8.0	9.7	10.2
47.5°	2.2	1.3	1.8	3.5	5.7	8.0	9.7	10.6
50°	1.3	1.3	1.3	3.5	5.7	8.4	10.2	10.6
52.5°	1.8	1.8	1.8	3.5	5.7	8.4	10.2	10.6
55°	1.8	1.8	1.8	3.5	5.7	8.4	10.2	10.6
57.5°	1.8	1.8	1.8	3.5	5.7	8.0	10.2	10.6
60°	1.8	1.8	1.8	3.1	5.3	8.0	9.7	10.2
62.5°	1.8	1.8	1.8	3.1	5.3	7.5	9.7	9.7
65°	1.8	1.8	1.8	2.7	4.9	7.1	8.8	9.3
67.5°	1.8	1.8	1.8	2.7	4.4	6.6	8.4	8.8
70°	1.3	1.8	1.8	2.2	4.0	6.2	8.0	8.4
72.5°	1.3	1.3	1.8	2.2	3.5	5.3	7.1	7.5
75°	1.3	1.3	1.3	1.8	3.1	4.9	6.2	6.6
77.5°	1.3	1.3	1.3	1.8	2.7	4.0	5.7	5.7
80°	0.9	1.3	1.3	1.3	2.2	3.1	4.4	4.9
82.5°	0.9	0.9	0.9	1.3	1.8	2.7	3.5	3.5
85°	0.9	0.9	0.9	0.9	1.3	1.8	2.2	2.2
87.5°	0.4	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)