

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: P1325252

Luminaire Tested: LDSQA3D05R50W2N902750DE010 3LSQCA30R 1MW_3500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325252
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: LDSQA3D05R50W2N902750DE010 3LSQCA30R 1MW_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 3500K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

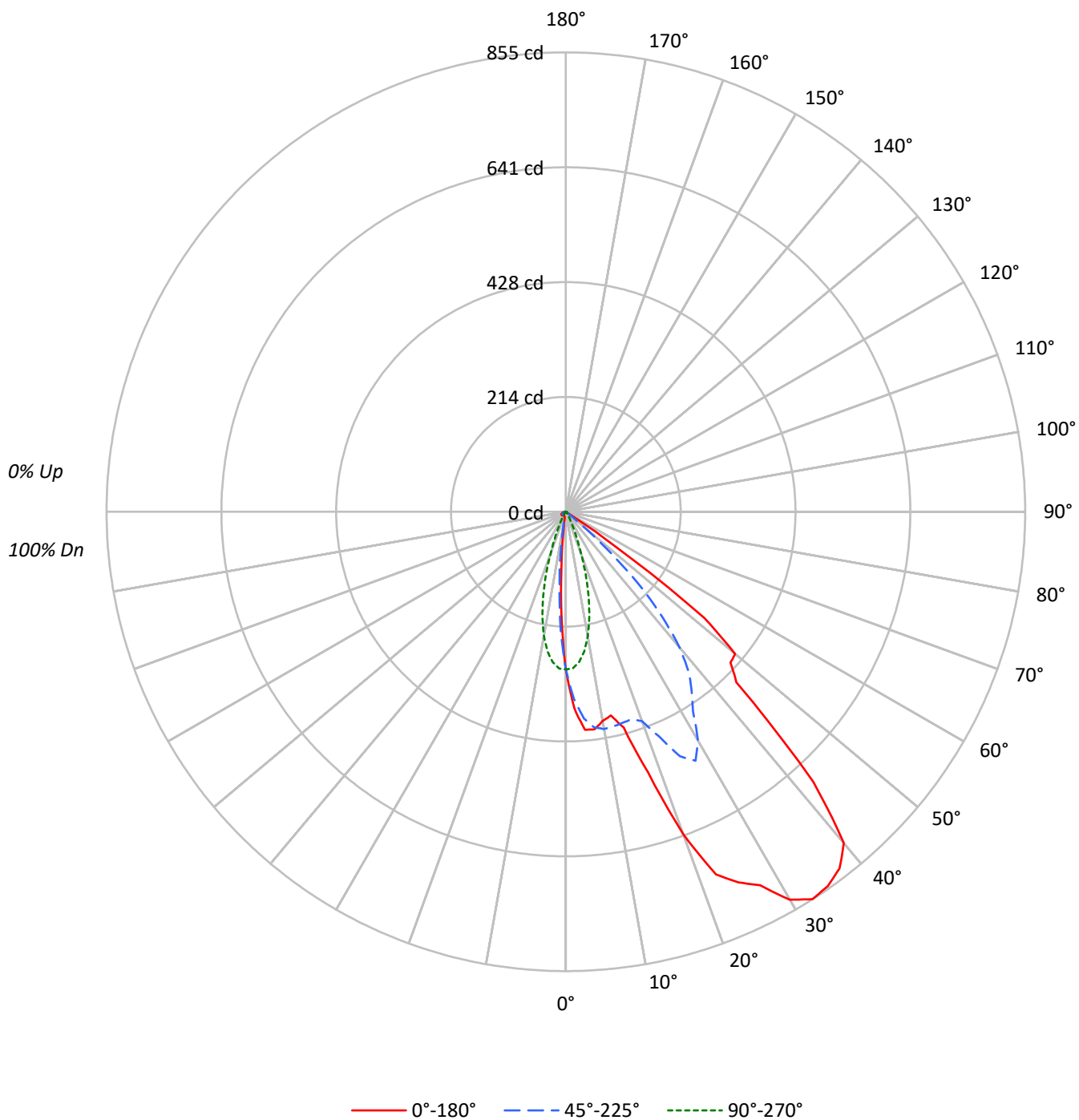
Lumens per Lamp: N/A
Luminaire Lumens: 455.9 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	50496	50496	50496	50496	50496
5°	70397	66784	48528	23322	15127
10°	69112	71771	41009	4914	2099
15°	74118	72532	28991	1712	1640
20°	117021	75968	15304	1466	1540
25°	144610	95393	6100	1368	1520
30°	165794	97842	2466	1352	1591
35°	178750	85864	1093	1430	1766
40°	180936	73944	809	1619	1978
45°	109358	47933	779	1754	2241
50°	110173	8279	857	2036	2572
55°	32548	480	961	2282	2883
60°	551	551	964	2480	3169
65°	489	489	978	2608	3423
70°	604	604	1007	2820	3827
75°	532	532	1065	2928	3993
80°	397	793	1190	2777	4364
85°	790	1581	1581	3162	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 124897 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	5.2
10°-20°	58.9	12.9
20°-30°	110.3	24.2
30°-40°	131.8	28.9
40°-50°	94.5	20.7
50°-60°	29.1	6.4
60°-70°	3.8	0.8
70°-80°	2.8	0.6
80°-90°	1.1	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°	192.8	42.3
0°-40°	324.7	71.2
0°-60°	448.3	98.3
0°-90°	455.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	293	293	293	293	293	
5°	407	386	281	135	88	38
15°	416	407	163	10	9	133
25°	761	502	32	7	8	351
35°	850	408	5	7	8	527
45°	449	197	3	7	9	412
55°	108	2	3	8	10	140
65°	1	1	2	6	8	1
75°	1	1	2	4	6	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°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	366.7	367.5	368.7	365.5	363.4	361.8	359.0	358.2	351.4	348.6	345.8
5°	407.2	406.4	407.2	406.0	405.2	402.8	400.4	396.4	392.0	386.3	379.9
7.5°	408.4	407.6	409.2	409.2	410.8	410.8	410.8	411.2	408.8	404.8	399.2
10°	395.2	395.2	396.8	396.0	398.8	400.0	402.8	407.6	410.0	410.4	408.8
12.5°	388.3	388.3	388.8	387.1	387.9	389.2	392.4	398.0	403.6	409.2	412.4
15°	415.7	416.5	410.8	402.8	396.8	390.4	388.3	392.0	398.0	406.8	414.1
17.5°	508.4	509.6	503.6	484.3	465.9	439.4	415.7	404.0	397.6	404.8	414.5
20°	638.5	634.1	623.7	603.2	576.3	535.3	498.4	461.0	425.3	414.5	417.7
22.5°	730.5	728.9	720.5	697.6	674.3	636.1	589.1	536.9	485.1	452.2	434.9
25°	761.0	759.8	752.2	738.5	725.7	696.8	654.6	602.0	547.8	502.0	458.6
27.5°	783.9	782.3	770.3	755.0	741.8	712.4	673.9	634.1	584.3	522.5	455.8
30°	833.7	829.3	812.4	785.1	759.8	719.3	676.7	627.3	559.8	492.0	426.9
32.5°	854.6	852.2	837.7	815.7	787.9	734.9	670.3	587.5	498.8	440.2	392.8
35°	850.2	846.6	831.7	806.4	772.7	721.7	635.3	521.7	449.4	408.4	355.0
37.5°	836.9	831.7	814.0	784.3	743.4	676.7	563.8	468.3	421.7	375.5	303.6
40°	804.8	796.4	775.9	745.0	704.0	616.5	498.8	436.1	392.8	328.9	246.2
42.5°	681.9	677.5	687.5	682.3	646.2	543.0	452.6	406.8	347.0	265.9	178.3
45°	449.0	456.6	474.7	505.6	512.8	467.1	414.9	358.6	285.5	196.8	102.8
47.5°	415.7	414.1	418.5	424.5	425.7	406.4	359.0	296.4	212.0	112.4	28.5
50°	411.2	408.8	405.2	398.0	382.7	345.4	291.6	216.1	122.5	30.9	2.0
52.5°	324.9	322.5	322.5	312.0	292.4	256.2	201.2	118.9	34.1	2.0	1.6
55°	108.4	115.7	114.5	114.1	122.9	113.3	86.7	30.5	2.8	1.6	1.6
57.5°	2.0	2.0	2.0	3.6	5.6	8.0	4.8	2.4	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
77.5°	0.4	0.4	0.4	0.4	0.8	0.8	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	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
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°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	339.4	333.7	322.9	292.0	257.8	218.9	192.4	189.2
5°	369.9	361.4	343.8	280.7	202.8	134.9	100.4	87.5
7.5°	390.0	378.7	357.0	262.2	147.8	71.1	38.2	30.5
10°	402.0	391.6	363.9	234.5	94.0	28.1	12.9	12.0
12.5°	408.4	398.4	366.3	201.2	53.0	12.9	10.0	10.0
15°	412.8	402.0	362.6	162.6	26.5	9.6	9.2	9.2
17.5°	414.9	401.6	352.2	122.5	14.1	8.8	8.8	8.8
20°	416.1	397.2	332.9	83.5	9.6	8.0	8.4	8.4
22.5°	417.3	386.3	307.6	53.0	7.6	7.6	8.0	8.0
25°	414.9	367.5	271.9	32.1	6.8	7.2	7.6	8.0
27.5°	397.6	339.0	228.5	19.7	6.0	6.8	7.6	8.0
30°	367.9	297.2	178.3	12.4	5.6	6.8	7.6	8.0
32.5°	329.3	249.4	127.3	7.6	5.6	6.8	7.6	8.0
35°	277.5	190.8	82.7	5.2	5.6	6.8	8.0	8.4
37.5°	219.3	133.3	44.6	4.0	5.6	6.8	8.0	8.4
40°	157.8	79.9	16.1	3.6	5.2	7.2	8.4	8.8
42.5°	92.4	29.7	2.8	3.2	5.2	7.2	8.4	8.8
45°	26.5	3.2	1.6	3.2	5.2	7.2	8.8	9.2
47.5°	2.0	1.2	1.6	3.2	5.2	7.2	8.8	9.6
50°	1.2	1.2	1.2	3.2	5.2	7.6	9.2	9.6
52.5°	1.6	1.6	1.6	3.2	5.2	7.6	9.2	9.6
55°	1.6	1.6	1.6	3.2	5.2	7.6	9.2	9.6
57.5°	1.6	1.6	1.6	3.2	5.2	7.2	9.2	9.6
60°	1.6	1.6	1.6	2.8	4.8	7.2	8.8	9.2
62.5°	1.6	1.6	1.6	2.8	4.8	6.8	8.8	8.8
65°	1.6	1.6	1.6	2.4	4.4	6.4	8.0	8.4
67.5°	1.6	1.6	1.6	2.4	4.0	6.0	7.6	8.0
70°	1.2	1.6	1.6	2.0	3.6	5.6	7.2	7.6
72.5°	1.2	1.2	1.6	2.0	3.2	4.8	6.4	6.8
75°	1.2	1.2	1.2	1.6	2.8	4.4	5.6	6.0
77.5°	1.2	1.2	1.2	1.6	2.4	3.6	5.2	5.2
80°	0.8	1.2	1.2	1.2	2.0	2.8	4.0	4.4
82.5°	0.8	0.8	0.8	1.2	1.6	2.4	3.2	3.2
85°	0.8	0.8	0.8	0.8	1.2	1.6	2.0	2.0
87.5°	0.4	0.8	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)