

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: P1327098

Luminaire Tested: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

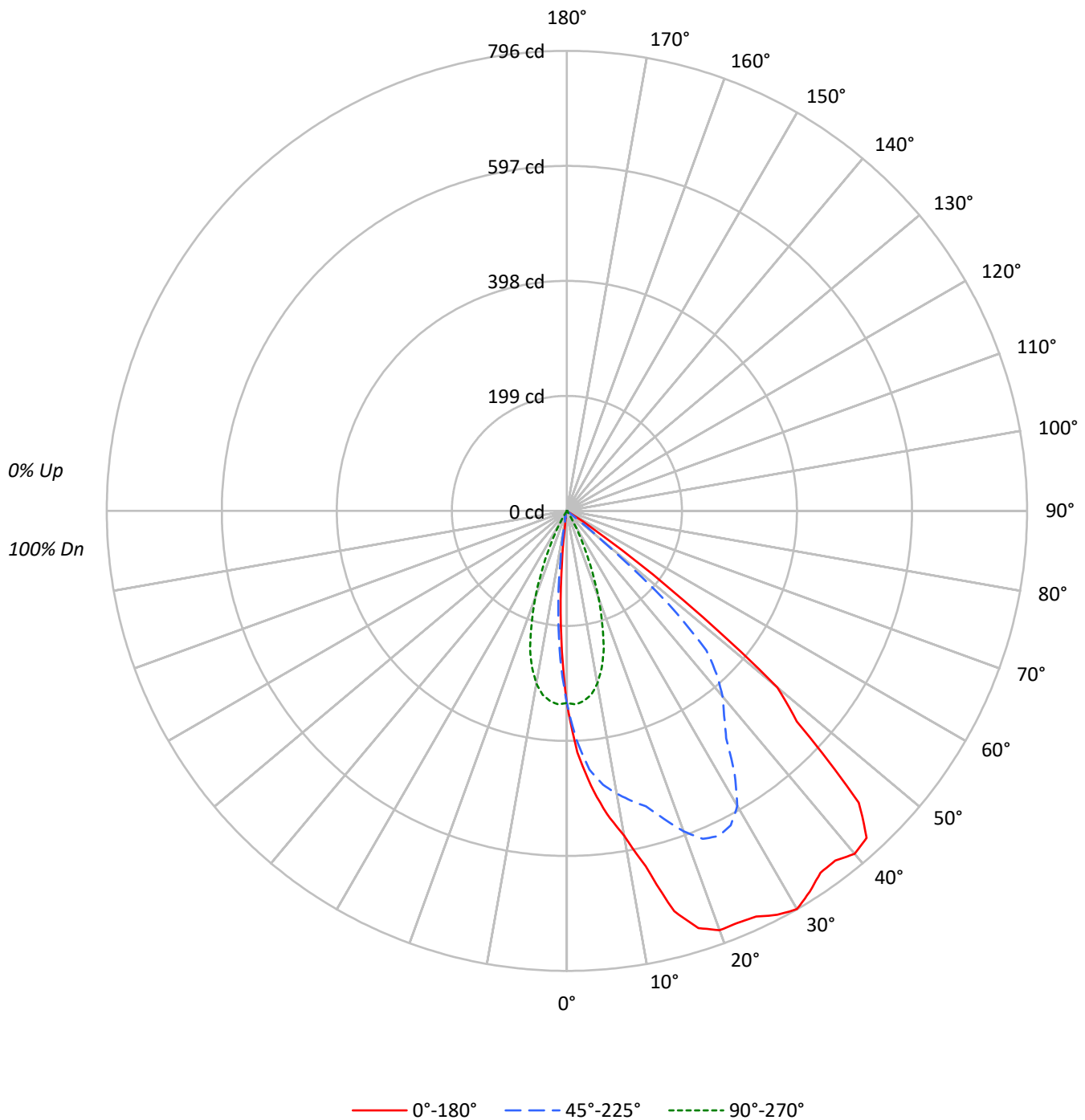
Lumens per Lamp: N/A
Luminaire Lumens: 540.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1327098

CATALOG NUMBER: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MMS_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1327098

CATALOG NUMBER: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MMS_4000K

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	57212	57212	57212	57212	57212
5°	82481	77675	57137	29442	18913
10°	99769	86845	53041	3515	2064
15°	127857	94337	43950	2318	1890
20°	141507	108133	29471	1301	220
25°	147157	117950	14499	114	0
30°	158237	117211	3997	0	0
35°	160711	100918	0	0	0
40°	174101	94110	0	0	0
45°	173926	83078	0	0	0
50°	127348	20122	0	0	0
55°	24862	0	0	0	0
60°	0	0	0	0	0
65°	0	245	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	595	595	0
85°	0	1186	1186	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 174218 cd/sqm

TEST NUMBER: P1327098

CATALOG NUMBER: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MMS_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	5.3
10°-20°	81.3	15.0
20°-30°	129.5	24.0
30°-40°	149.7	27.7
40°-50°	118.9	22.0
50°-60°	31.3	5.8
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.3	0.1
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°	239.3	44.3
0°-40°	388.9	72.0
0°-60°	539.1	99.8
0°-90°	540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	332	332	332	332	332	
5°	477	449	330	170	109	48
15°	717	529	246	13	11	200
25°	774	621	76	1	0	361
35°	764	480	0	0	0	485
45°	714	341	0	0	0	509
55°	83	0	0	0	0	125
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1327098

CATALOG NUMBER: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MMS_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	332.2	332.2	332.2	332.2	332.2	332.2	332.2	332.2	332.2	332.2	332.2
2.5°	418.0	422.1	420.3	418.6	414.4	412.6	412.6	407.9	400.2	399.0	393.7
5°	477.1	478.3	478.3	477.1	474.1	469.4	468.2	463.5	456.4	449.3	442.2
7.5°	528.5	527.9	524.4	522.0	516.7	510.2	504.3	497.8	487.1	477.7	467.6
10°	570.5	572.3	569.3	563.4	556.3	547.4	538.0	526.7	510.8	496.6	483.6
12.5°	629.6	629.0	621.3	611.3	594.1	577.6	562.8	550.4	530.9	513.7	497.8
15°	717.1	715.9	708.8	700.0	675.1	650.3	624.9	590.0	557.5	529.1	506.6
17.5°	756.7	759.1	753.2	748.4	734.2	717.7	695.2	660.3	610.1	558.7	511.4
20°	772.1	775.0	770.9	770.3	763.8	756.1	737.8	700.0	650.9	590.0	531.5
22.5°	771.5	773.9	772.1	779.8	787.5	783.3	760.8	723.0	672.8	614.2	548.0
25°	774.4	772.7	766.2	777.4	788.6	785.1	773.9	741.3	686.4	620.7	553.9
27.5°	788.0	775.0	762.0	776.2	781.5	782.7	776.2	737.8	684.0	613.6	542.1
30°	795.7	781.5	770.9	782.7	782.7	789.2	775.6	731.9	663.9	589.4	510.8
32.5°	781.5	778.6	788.0	799.9	802.8	802.8	772.7	712.4	630.2	539.7	460.5
35°	764.4	771.5	798.7	804.0	804.0	791.0	754.3	678.1	579.9	480.0	423.3
37.5°	762.6	773.9	804.0	797.5	786.9	762.6	709.4	618.4	508.4	446.3	395.5
40°	774.4	785.1	802.8	779.2	753.8	715.9	652.1	540.3	465.3	418.6	361.8
42.5°	767.4	777.4	778.0	743.1	707.0	655.6	571.1	477.1	433.9	383.1	323.4
45°	714.1	715.3	713.0	675.7	638.5	585.3	495.4	445.7	399.6	341.1	237.7
47.5°	539.7	537.4	546.2	535.6	537.4	505.5	449.9	409.1	354.1	239.4	72.1
50°	475.3	472.4	463.5	454.0	444.6	429.2	403.2	359.4	255.4	75.1	2.4
52.5°	254.8	269.0	296.8	339.3	355.3	354.1	334.6	266.0	80.4	0.6	0.0
55°	82.8	81.6	91.0	107.6	147.8	170.3	177.4	90.5	1.8	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	5.9	15.4	20.1	1.2	0.0	0.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1327098

CATALOG NUMBER: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MMS_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	332.2	332.2	332.2	332.2	332.2	332.2	332.2	332.2
2.5°	386.6	378.4	368.9	335.2	295.6	257.2	229.4	222.3
5°	431.0	416.8	396.7	330.5	244.2	170.3	121.8	109.4
7.5°	454.0	441.6	420.3	321.0	189.2	83.9	31.3	21.3
10°	468.2	453.4	429.8	303.3	123.6	20.1	11.2	11.8
12.5°	478.3	461.1	434.5	277.9	62.7	10.1	14.2	14.8
15°	482.4	464.1	433.9	246.5	22.5	13.0	12.4	10.6
17.5°	480.0	457.0	426.2	201.6	7.7	12.4	6.5	5.3
20°	477.1	451.1	413.8	160.8	6.5	7.1	2.4	1.2
22.5°	486.5	441.0	396.7	115.3	6.5	2.4	0.0	0.0
25°	487.7	436.9	374.8	76.3	3.0	0.6	0.0	0.0
27.5°	475.9	412.6	341.1	44.9	0.0	0.0	0.0	0.0
30°	438.1	382.5	305.0	20.1	0.0	0.0	0.0	0.0
32.5°	400.8	348.8	264.8	4.7	0.0	0.0	0.0	0.0
35°	371.3	313.9	220.5	0.0	0.0	0.0	0.0	0.0
37.5°	334.6	272.5	164.3	0.0	0.0	0.0	0.0	0.0
40°	296.2	219.9	82.2	0.0	0.0	0.0	0.0	0.0
42.5°	231.2	104.6	8.3	0.0	0.0	0.0	0.0	0.0
45°	88.7	9.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
70°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
75°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
77.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)