

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: P1327272

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCA30R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902765DE010 3LSQCA30R 1MMS_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

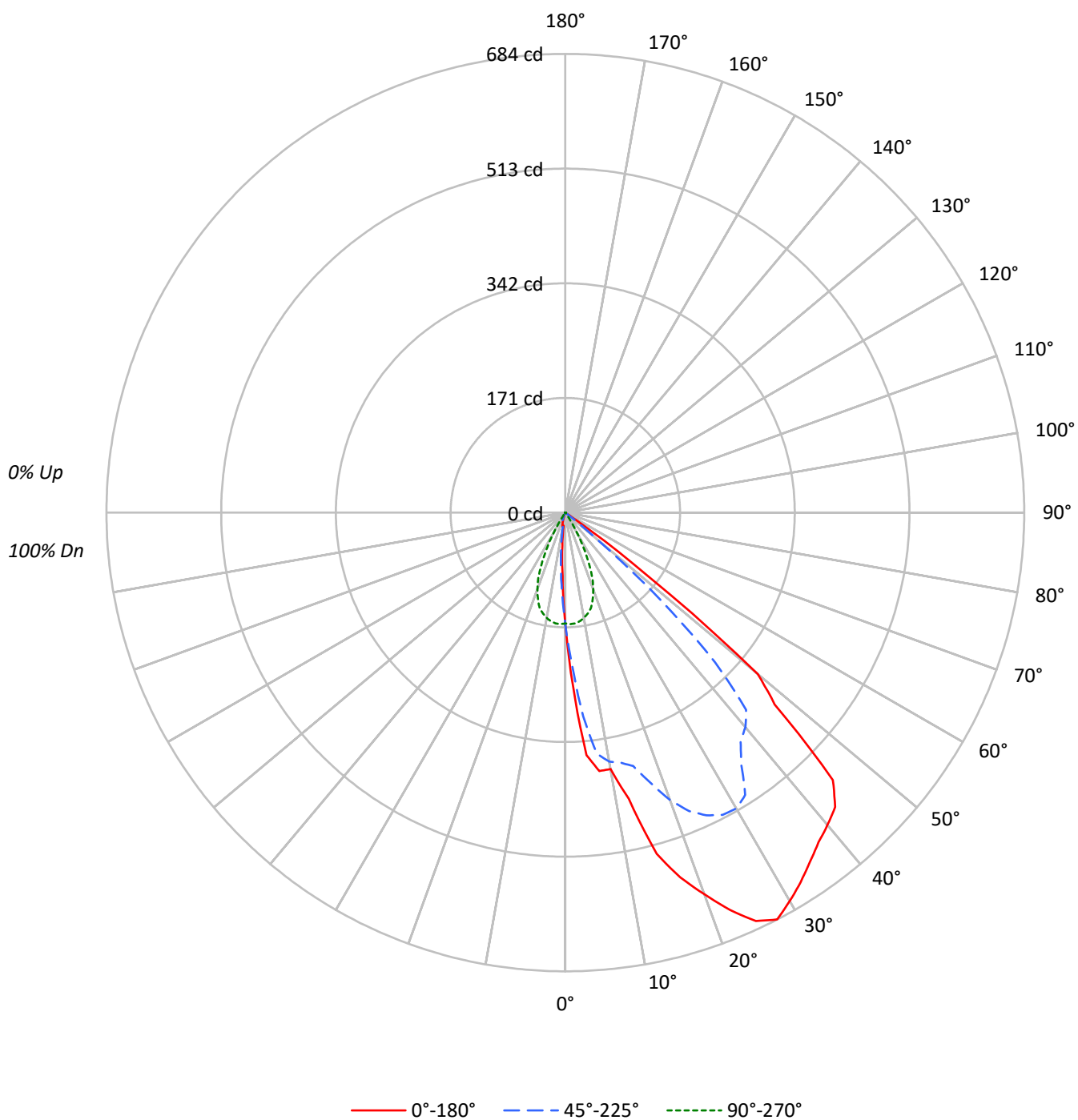
Lumens per Lamp: N/A
Luminaire Lumens: 445.0 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1327272

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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	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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28451	28451	28451	28451	28451
5°	62756	52659	28664	13035	8575
10°	67871	65895	27893	3620	3742
15°	93945	69750	26317	3691	2692
20°	110955	83555	22323	2181	806
25°	127679	94633	15753	361	0
30°	133001	101282	7239	0	0
35°	133611	95977	399	0	0
40°	136668	93885	0	0	0
45°	137343	76940	0	0	0
50°	100287	15995	0	0	0
55°	5645	0	0	0	0
60°	0	207	207	0	0
65°	0	0	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: 139949 cd/sqm

TEST NUMBER: P1327272

CATALOG NUMBER: LDSQA3D09R70W2N902765DE010 3LSQCA30R 1MMS_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.1	4.1
10°-20°	60.3	13.6
20°-30°	108.4	24.4
30°-40°	131.8	29.6
40°-50°	101.8	22.9
50°-60°	23.7	5.3
60°-70°	0.1	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°	186.9	42.0
0°-40°	318.7	71.6
0°-60°	444.2	99.8
0°-90°	445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	445.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	165	165	165	165	165	
5°	363	305	166	75	50	34
15°	527	391	148	21	15	147
25°	672	498	83	2	0	306
35°	636	456	2	0	0	399
45°	564	316	0	0	0	399
55°	19	0	0	0	0	77
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	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°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2
2.5°	257.5	257.5	258.7	258.1	252.4	249.9	241.8	237.4	236.1	226.1	222.3
5°	363.0	363.6	360.5	359.8	353.5	349.1	342.2	331.6	320.9	304.6	290.1
7.5°	388.7	388.1	387.5	387.5	386.2	383.7	380.5	377.4	373.0	363.0	351.7
10°	388.1	388.1	387.5	387.5	386.8	387.5	386.8	384.9	383.1	376.8	370.5
12.5°	437.1	433.3	428.3	420.7	408.2	398.8	388.1	384.9	383.7	381.8	378.0
15°	526.9	523.7	513.0	499.9	487.3	466.0	449.0	425.8	407.5	391.2	383.1
17.5°	570.2	572.1	560.1	552.0	540.1	523.1	503.0	479.1	453.4	422.6	398.1
20°	605.4	607.2	597.2	589.0	575.2	557.6	540.1	514.3	489.8	455.9	423.9
22.5°	641.2	642.4	633.0	621.1	605.4	587.1	564.5	538.2	511.8	481.6	447.7
25°	671.9	670.7	655.0	638.0	622.9	603.5	581.5	555.7	530.6	498.0	466.0
27.5°	683.9	683.2	665.6	649.3	631.7	605.4	585.9	563.3	536.9	508.0	475.4
30°	668.8	678.8	667.5	655.6	634.2	607.9	589.0	562.0	537.5	509.3	472.2
32.5°	653.1	665.6	661.9	656.2	631.1	610.4	585.9	560.8	531.9	499.2	442.7
35°	635.5	648.7	649.3	643.0	620.4	599.7	577.1	550.7	518.1	456.5	415.1
37.5°	619.8	632.4	636.1	622.9	605.4	577.7	557.0	529.4	470.3	428.9	407.5
40°	607.9	617.3	622.9	602.2	584.6	557.6	533.8	485.4	432.0	417.6	387.5
42.5°	595.3	604.1	606.6	584.0	557.0	531.3	496.7	435.8	420.1	398.8	317.8
45°	563.9	574.6	568.3	546.3	526.2	499.2	447.7	421.4	404.4	315.9	195.3
47.5°	423.2	435.2	452.1	458.4	465.3	445.9	417.6	408.2	332.2	191.5	60.9
50°	374.3	372.4	372.4	375.5	381.2	387.5	395.6	344.1	199.7	59.7	0.0
52.5°	152.6	160.1	197.2	230.5	268.8	307.1	319.0	211.0	77.9	1.3	0.0
55°	18.8	18.8	26.4	45.2	74.7	120.6	135.6	67.8	5.7	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	5.0	13.8	9.4	2.5	0.6	0.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2
2.5°	216.0	208.5	197.8	166.4	139.4	115.5	101.7	94.8
5°	276.3	258.1	233.6	165.8	113.0	75.4	56.5	49.6
7.5°	334.1	313.4	271.9	163.3	86.7	44.0	24.5	19.5
10°	359.2	344.1	307.1	159.5	62.8	20.7	20.7	21.4
12.5°	369.2	357.9	327.8	153.9	41.4	20.1	21.4	20.1
15°	376.2	365.5	337.8	147.6	23.9	20.7	17.0	15.1
17.5°	379.9	367.4	341.0	135.6	15.7	17.6	10.7	8.8
20°	391.9	371.8	343.5	121.8	15.1	11.9	5.7	4.4
22.5°	411.9	380.5	344.1	104.9	11.9	6.9	1.9	0.0
25°	430.2	392.5	346.0	82.9	3.8	1.9	0.0	0.0
27.5°	438.9	396.2	345.4	58.4	0.0	0.0	0.0	0.0
30°	428.3	386.8	339.7	36.4	0.0	0.0	0.0	0.0
32.5°	403.2	379.9	322.1	15.7	0.0	0.0	0.0	0.0
35°	395.0	364.8	282.0	1.9	0.0	0.0	0.0	0.0
37.5°	376.8	321.5	207.2	0.0	0.0	0.0	0.0	0.0
40°	324.0	232.3	98.6	0.0	0.0	0.0	0.0	0.0
42.5°	214.1	99.2	5.7	0.0	0.0	0.0	0.0	0.0
45°	75.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.3	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	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.0	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	0.6	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	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)