

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: P1327197

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

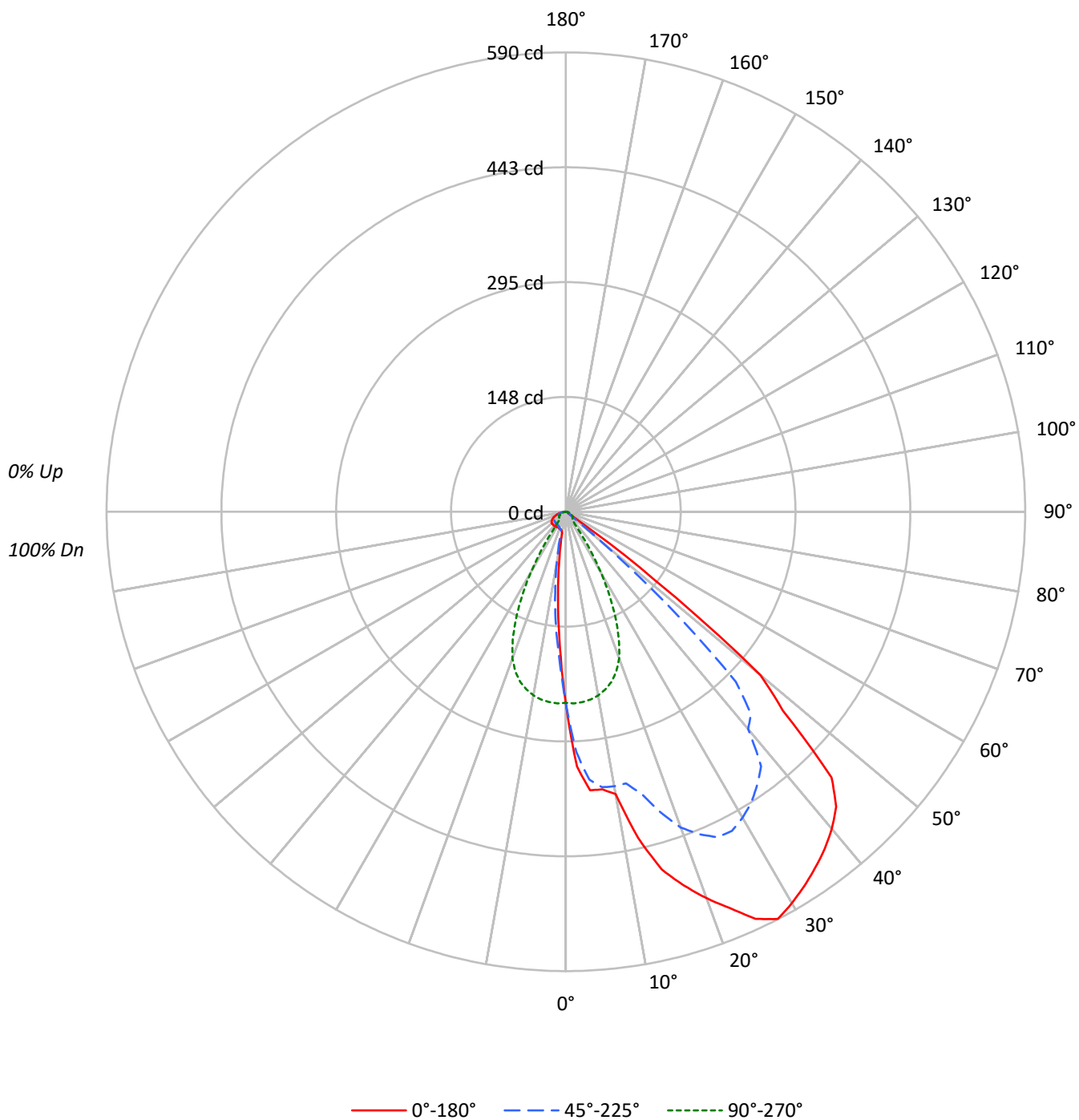
Lumens per Lamp: N/A
Luminaire Lumens: 466.0 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1327197

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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	42246	42246	42246	42246	42246
5°	62064	59696	42408	25327	19829
10°	64356	62607	41884	12119	4897
15°	84763	66755	40349	4333	4243
20°	96806	79083	36728	4160	4270
25°	109626	87621	28846	4029	4219
30°	115461	90225	17878	3997	4514
35°	117401	90048	5887	4121	4773
40°	119470	81902	2855	4406	5238
45°	117591	75211	2971	4628	5675
50°	87399	13879	2974	5091	6243
55°	6996	1892	3183	5405	6666
60°	1447	1998	3100	5477	6923
65°	1508	1956	3016	5379	7091
70°	1309	1863	2921	5035	6899
75°	1065	1730	2462	4924	6654
80°	1091	1587	2579	4761	6248
85°	988	2174	3162	4150	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 119003 cd/sqm

TEST NUMBER: P1327197

CATALOG NUMBER: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MW_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	4.8
10°-20°	62.8	13.5
20°-30°	105.4	22.6
30°-40°	126.8	27.2
40°-50°	100.5	21.6
50°-60°	32.1	6.9
60°-70°	9.0	1.9
70°-80°	5.4	1.1
80°-90°	1.7	0.4
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°	190.5	40.9
0°-40°	317.3	68.1
0°-60°	450.0	96.6
0°-90°	466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	359	345	245	146	115	34
15°	475	374	226	24	24	134
25°	577	461	152	21	22	264
35°	558	428	28	20	23	350
45°	483	309	12	19	23	347
55°	23	6	11	18	22	73
65°	4	5	7	13	17	4
75°	2	3	4	7	10	2
85°	0	1	2	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1327197

CATALOG NUMBER: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MW_2700K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	245.3	245.3	245.3	245.3	245.3	245.3	245.3	245.3	245.3	245.3	245.3
2.5°	327.3	329.4	329.4	326.8	327.8	323.6	320.4	315.7	314.6	308.8	301.4
5°	359.0	358.0	358.0	355.9	356.9	355.3	353.7	352.7	349.5	345.3	341.1
7.5°	359.6	360.6	361.1	360.6	362.7	361.1	361.1	361.1	359.0	356.9	352.7
10°	368.0	366.4	364.8	361.1	359.0	357.4	357.4	358.0	359.0	358.0	355.3
12.5°	428.8	423.0	420.4	411.4	404.5	392.9	379.7	369.6	360.6	357.4	355.3
15°	475.4	474.3	469.0	460.6	452.1	438.3	423.0	407.7	391.3	374.4	362.2
17.5°	502.9	500.7	495.5	486.5	476.4	463.7	451.6	439.9	424.1	405.0	385.5
20°	528.2	523.5	516.6	506.0	496.0	483.8	470.6	459.5	446.3	431.5	408.7
22.5°	551.0	546.7	535.6	521.4	511.3	499.7	488.1	477.5	465.3	448.4	427.8
25°	576.9	567.4	549.4	530.9	518.7	509.2	500.7	492.3	479.6	461.1	436.8
27.5°	589.6	576.4	556.8	538.3	526.7	516.6	507.6	499.2	484.9	462.1	434.1
30°	580.6	573.2	559.4	545.2	535.6	526.1	515.5	502.9	480.1	453.7	427.8
32.5°	570.0	566.3	560.0	551.5	545.7	536.2	521.4	500.7	469.0	443.1	415.1
35°	558.4	556.8	554.7	551.0	547.3	538.3	519.8	489.6	457.9	428.3	401.3
37.5°	546.2	544.6	546.2	545.7	542.5	530.9	502.9	474.8	442.0	411.9	359.6
40°	531.4	530.4	533.0	535.6	531.9	516.6	486.5	452.6	423.5	364.3	346.3
42.5°	514.0	513.4	518.2	520.3	515.0	492.3	456.9	432.0	370.7	351.6	309.3
45°	482.8	483.8	485.9	488.6	485.4	460.6	428.3	382.8	355.9	308.8	176.1
47.5°	378.1	379.1	389.7	411.9	427.2	418.8	391.3	357.4	318.3	176.6	55.5
50°	326.2	325.2	325.7	331.0	343.2	354.8	346.3	327.8	189.8	51.8	6.9
52.5°	143.3	159.2	176.1	223.7	254.3	286.6	292.9	205.2	61.9	6.9	6.9
55°	23.3	24.3	30.7	44.9	80.9	122.1	148.1	68.7	6.3	6.3	6.3
57.5°	4.8	4.8	4.8	5.3	7.9	16.9	19.6	5.8	5.8	5.8	6.3
60°	4.2	4.2	4.2	4.2	4.8	4.8	4.8	5.3	5.3	5.8	5.8
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.8	4.8	5.3	5.3	5.8
65°	3.7	3.7	3.7	3.7	4.2	4.2	4.2	4.2	4.8	4.8	5.3
67.5°	3.2	3.2	3.2	3.2	3.7	3.7	3.7	4.2	4.2	4.2	4.8
70°	2.6	2.6	2.6	2.6	3.2	3.2	3.2	3.2	3.7	3.7	3.7
72.5°	2.1	2.1	2.1	2.1	2.6	2.6	2.6	2.6	3.2	3.2	3.2
75°	1.6	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.6	2.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6
82.5°	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P1327197

CATALOG NUMBER: LDSQA3D09R70W2N902750DE010 3LSQCA30R 1MW_2700K

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	245.3	245.3	245.3	245.3	245.3	245.3	245.3	245.3
2.5°	296.6	289.2	279.2	246.4	216.3	188.8	175.0	173.4
5°	334.2	327.3	310.4	245.3	187.7	146.5	121.6	114.7
7.5°	348.5	342.6	327.8	243.2	160.7	105.2	77.2	66.6
10°	352.2	348.5	335.8	239.5	132.7	69.3	36.5	28.0
12.5°	353.7	351.1	338.9	233.7	104.7	36.0	24.9	24.9
15°	356.4	353.7	342.1	226.3	77.2	24.3	23.8	23.8
17.5°	368.0	359.6	346.3	215.2	50.8	23.3	23.3	23.3
20°	387.1	368.5	348.5	200.4	31.7	22.7	22.7	23.3
22.5°	402.9	378.1	347.9	178.2	23.3	21.7	22.2	22.7
25°	409.8	382.3	343.2	151.8	20.1	21.2	22.2	22.2
27.5°	408.7	383.9	338.9	121.6	19.0	20.6	21.7	22.7
30°	402.9	379.7	329.4	89.9	18.0	20.1	21.7	22.7
32.5°	392.9	363.3	310.4	58.2	17.4	20.1	21.7	22.7
35°	360.1	336.8	282.9	28.0	16.9	19.6	22.2	22.7
37.5°	341.1	308.8	215.7	13.7	16.4	19.6	22.2	22.7
40°	310.4	230.5	97.3	12.7	16.4	19.6	22.2	23.3
42.5°	195.1	94.6	15.9	12.2	15.9	19.6	22.2	23.3
45°	71.4	12.7	8.5	12.2	15.9	19.0	22.2	23.3
47.5°	7.4	7.4	7.9	11.6	15.3	19.0	22.2	23.3
50°	6.9	7.4	7.9	11.1	14.8	19.0	21.7	23.3
52.5°	6.9	7.4	7.9	11.1	14.3	18.5	21.7	23.3
55°	6.9	7.4	7.4	10.6	13.7	18.0	21.2	22.2
57.5°	6.3	6.9	7.4	10.0	13.2	16.9	20.6	21.7
60°	6.3	6.9	7.4	9.0	12.7	15.9	19.6	20.1
62.5°	5.8	6.3	6.9	8.5	11.6	14.8	18.0	19.0
65°	5.8	5.8	6.3	7.4	10.6	13.2	16.4	17.4
67.5°	4.8	5.3	5.3	6.3	9.0	11.6	14.8	15.9
70°	4.2	4.2	4.8	5.8	7.9	10.0	12.7	13.7
72.5°	3.7	3.7	3.7	4.8	6.9	9.0	11.1	12.2
75°	3.2	3.2	3.2	3.7	5.8	7.4	9.5	10.0
77.5°	2.6	2.6	2.6	3.2	4.8	6.3	7.4	8.5
80°	2.1	2.1	2.1	2.6	3.7	4.8	5.8	6.3
82.5°	1.6	1.6	1.6	2.1	2.6	3.2	4.2	4.2
85°	1.1	1.1	1.1	1.6	1.6	2.1	2.6	2.6
87.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)