

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: P1327105

Luminaire Tested: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R60W2N902765DE010 3LSQCA30R 1MW_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

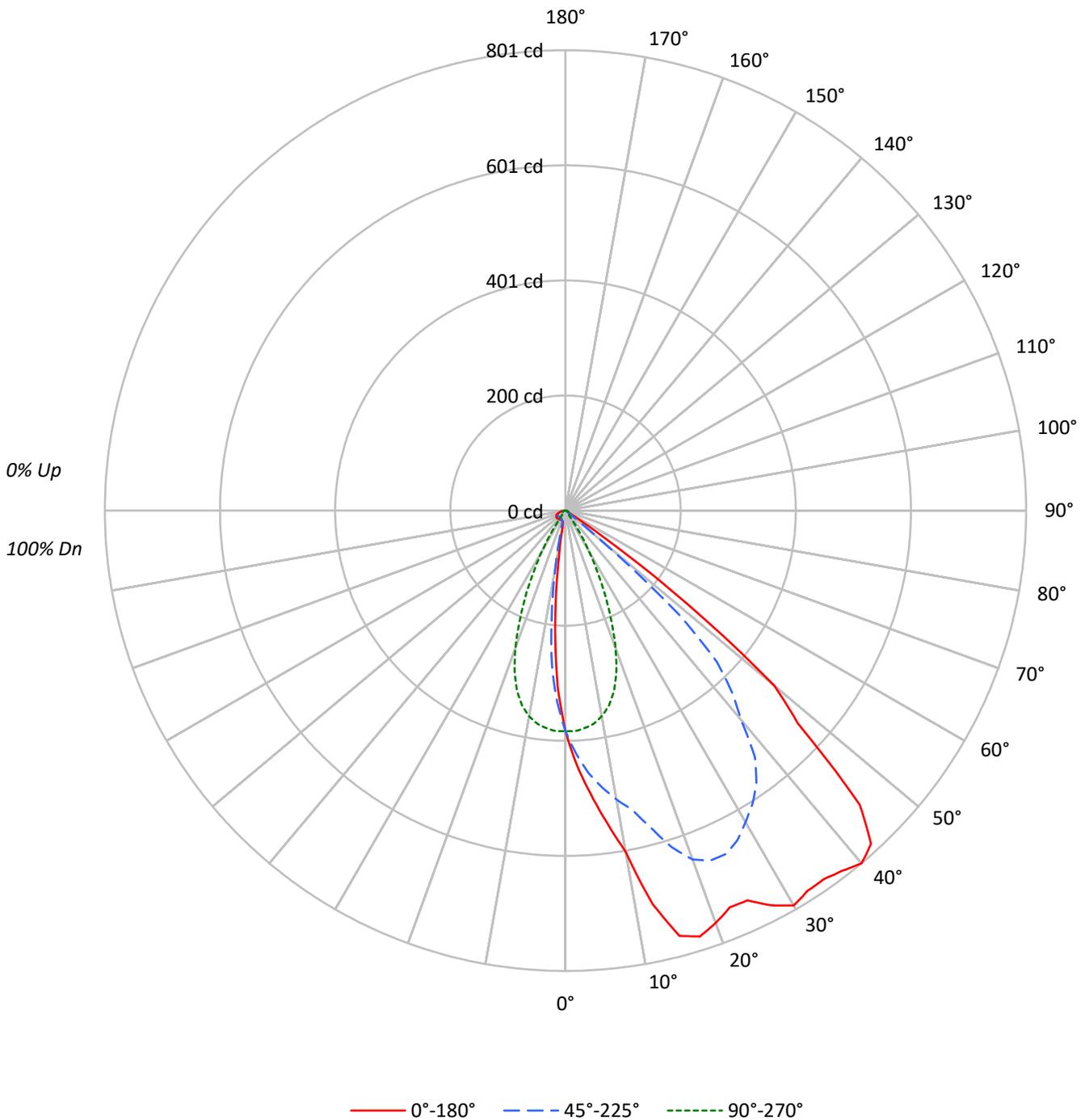
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 623.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26
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

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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	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	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90	
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	81	77	74	72	
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	67	61	55	66	60	55	64	59	55	63	58	54	63	58	54	52	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	54	46	42	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	47	41	38	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	66047	66047	66047	66047	66047
5°	85317	79214	65695	46781	35700
10°	105435	89276	63569	17698	5246
15°	136541	101630	58000	3887	3459
20°	139931	118359	46680	3226	3336
25°	142178	125304	31297	3135	3344
30°	157800	124450	16148	3162	3500
35°	164601	121690	4457	3343	3826
40°	180104	106722	2113	3575	4227
45°	176215	90677	2143	3873	4725
50°	127026	22372	2358	4260	5198
55°	24381	1411	2462	4594	5825
60°	1206	1412	2446	4857	6269
65°	1182	1426	2404	5053	6724
70°	1209	1460	2367	5035	6798
75°	1198	1597	2329	5057	7053
80°	595	1785	2380	5256	7042
85°	1186	1186	2371	4742	6916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 176215 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	5.4
10°-20°	92.1	14.8
20°-30°	141.7	22.7
30°-40°	166.3	26.7
40°-50°	133.3	21.4
50°-60°	41.4	6.6
60°-70°	7.8	1.3
70°-80°	5.2	0.8
80°-90°	1.8	0.3
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°	267.1	42.9
0°-40°	433.4	69.6
0°-60°	608.2	97.6
0°-90°	623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	623.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	384	384	384	384	384	
5°	494	458	380	271	206	50
15°	766	570	325	22	19	210
25°	748	659	165	16	18	353
35°	783	579	21	16	18	495
45°	724	372	9	16	19	518
55°	81	5	8	15	19	128
65°	3	4	6	12	16	3
75°	2	2	4	8	11	2
85°	1	1	1	2	4	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°	383.5	383.5	383.5	383.5	383.5	383.5	383.5	383.5	383.5	383.5	383.5
2.5°	442.3	437.6	437.6	435.8	434.1	434.7	430.0	431.7	427.0	423.5	420.6
5°	493.5	487.6	487.0	484.1	481.1	478.8	472.9	469.4	462.3	458.2	449.4
7.5°	546.4	541.7	538.8	535.3	530.0	524.1	514.1	507.6	496.4	485.3	474.1
10°	602.9	598.8	592.3	588.2	573.5	564.1	550.5	541.7	525.3	510.5	493.5
12.5°	701.7	699.4	687.0	678.8	657.6	638.8	609.4	585.8	556.4	532.3	509.4
15°	765.8	762.9	756.4	748.8	735.2	714.1	687.6	654.7	613.5	570.0	531.1
17.5°	777.0	777.6	773.5	771.7	762.9	749.4	728.2	703.5	662.3	614.1	561.1
20°	763.5	768.2	767.0	770.5	772.3	767.0	752.9	728.8	692.9	645.8	586.4
22.5°	747.0	751.1	749.9	756.4	766.4	771.7	767.0	747.6	711.1	658.8	600.5
25°	748.2	751.1	742.3	746.4	759.4	772.3	772.9	755.8	716.4	659.4	599.4
27.5°	774.1	765.2	745.2	743.5	759.4	775.8	777.0	755.8	708.8	647.0	587.6
30°	793.5	787.0	764.6	761.7	777.0	788.2	782.3	749.4	690.5	625.8	570.5
32.5°	784.1	785.2	775.8	785.2	805.2	809.9	785.2	734.1	665.2	605.2	550.5
35°	782.9	787.6	792.9	807.6	821.1	809.9	770.5	705.2	638.2	578.8	519.4
37.5°	789.9	797.6	805.2	818.2	818.2	789.4	731.7	668.8	605.8	541.1	454.7
40°	801.1	805.8	808.2	807.0	791.1	748.8	687.6	624.7	564.7	474.7	411.7
42.5°	786.4	785.8	783.5	773.5	744.1	688.8	631.7	580.5	485.8	428.2	356.4
45°	723.5	723.5	717.0	701.1	674.1	628.2	577.6	502.9	442.9	372.3	264.7
47.5°	547.6	543.5	550.5	560.0	560.0	555.8	510.0	445.3	384.1	268.8	84.7
50°	474.1	467.6	458.8	460.6	459.4	464.1	434.7	385.9	284.1	83.5	5.9
52.5°	268.2	280.0	308.8	349.4	367.6	374.1	355.9	293.5	95.9	5.3	4.7
55°	81.2	83.5	94.7	116.5	158.2	202.3	205.3	95.3	6.5	4.7	4.7
57.5°	3.5	3.5	4.7	7.1	16.5	24.7	26.5	5.9	4.1	4.7	4.7
60°	3.5	3.5	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.1	4.7
62.5°	2.9	2.9	3.5	3.5	3.5	3.5	3.5	3.5	4.1	4.1	4.1
65°	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5	3.5	4.1
67.5°	2.4	2.4	2.4	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	2.9	2.9	2.9
72.5°	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	2.9
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	383.5	383.5	383.5	383.5	383.5	383.5	383.5	383.5
2.5°	416.4	411.7	406.4	384.1	362.3	332.9	312.9	307.0
5°	441.7	434.1	422.3	380.0	328.8	270.6	223.5	206.5
7.5°	462.9	451.1	434.7	374.1	288.8	183.5	118.2	100.0
10°	478.2	463.5	442.3	363.5	235.9	101.2	40.0	30.0
12.5°	491.1	471.7	446.4	347.6	171.8	41.2	20.6	20.6
15°	500.0	476.4	448.2	325.3	111.2	21.8	19.4	19.4
17.5°	512.3	481.7	448.2	294.1	60.6	18.8	18.8	18.8
20°	532.3	487.0	441.7	254.7	33.5	17.6	18.2	18.2
22.5°	542.9	494.7	433.5	208.8	21.2	17.1	17.6	17.6
25°	545.3	493.5	415.8	164.7	17.1	16.5	17.1	17.6
27.5°	537.0	485.3	392.3	120.0	15.3	15.9	17.1	17.6
30°	522.3	465.3	354.7	81.2	14.1	15.9	17.1	17.6
32.5°	494.7	417.0	310.6	48.8	13.5	15.9	17.1	18.2
35°	432.9	366.4	260.0	21.2	12.9	15.9	17.6	18.2
37.5°	388.2	315.9	201.2	10.6	12.9	15.9	17.6	18.8
40°	338.8	254.1	92.9	9.4	12.9	15.9	17.6	18.8
42.5°	258.2	117.6	11.2	9.4	12.4	15.9	18.2	18.8
45°	94.1	12.4	5.9	8.8	12.4	15.9	18.2	19.4
47.5°	7.1	4.7	5.3	8.8	12.4	15.9	18.2	19.4
50°	4.7	4.7	5.3	8.8	12.4	15.9	18.2	19.4
52.5°	4.7	5.3	5.3	8.2	11.8	15.9	18.2	19.4
55°	4.7	5.3	5.3	8.2	11.8	15.3	18.2	19.4
57.5°	4.7	4.7	5.3	7.6	11.2	14.7	18.2	18.8
60°	4.7	4.7	5.3	7.1	10.6	14.1	17.1	18.2
62.5°	4.7	4.7	4.7	6.5	10.0	13.5	16.5	17.6
65°	4.1	4.1	4.7	5.9	8.8	12.4	15.3	16.5
67.5°	3.5	4.1	4.1	5.3	8.2	11.2	14.1	15.3
70°	3.5	3.5	3.5	4.7	7.1	10.0	12.9	13.5
72.5°	2.9	2.9	3.5	4.1	6.5	8.8	11.8	12.4
75°	2.4	2.9	2.9	3.5	5.3	7.6	10.0	10.6
77.5°	2.4	2.4	2.4	2.9	4.7	6.5	8.2	8.8
80°	1.8	1.8	1.8	2.4	3.5	5.3	6.5	7.1
82.5°	1.2	1.8	1.8	1.8	2.9	3.5	4.7	5.3
85°	1.2	1.2	1.2	1.2	1.8	2.4	2.9	3.5
87.5°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)