

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: P1317861

Luminaire Tested: LDSQA3D20R709827D010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R709827D010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

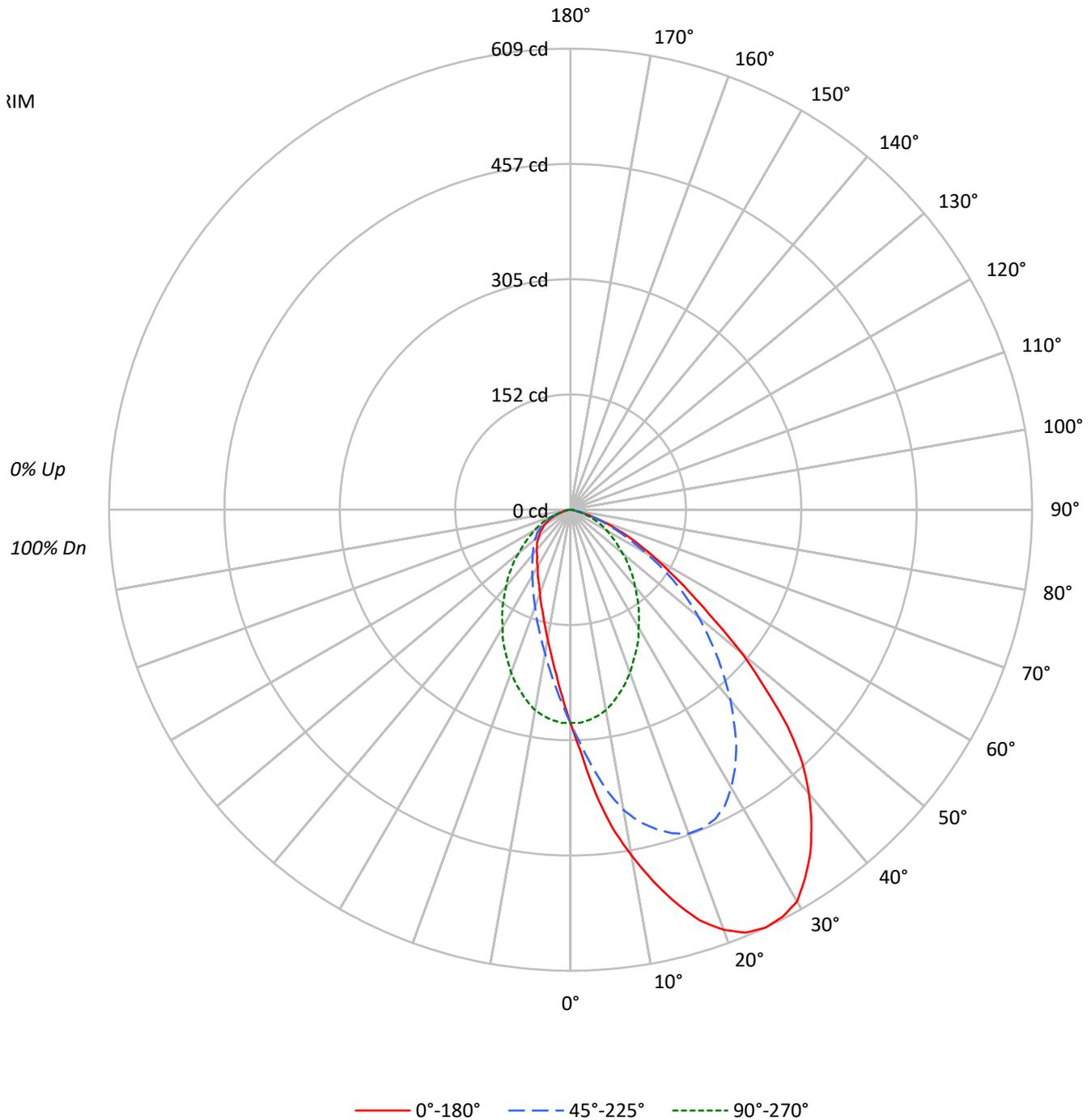
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 688.0 lumens
Efficiency: N/A
Efficacy: 25.1 lumens/watt
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1317861
CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCLSWWR 1MW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88		
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76		
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66		
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58		
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51		
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45		
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40		
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	48515	48515	48515	48515	48515
5°	64934	59281	48199	40333	37636
10°	81109	70406	47025	33839	30359
15°	95889	77881	44646	28920	25104
20°	108206	83445	41970	25035	21645
25°	115707	85702	38936	22176	19193
30°	118822	84319	35657	20085	17262
35°	116055	80166	32903	18544	16147
40°	110027	73876	29744	17581	15670
45°	98763	66540	27035	16976	15247
50°	79281	59079	24007	16397	14495
55°	58521	50834	21349	16244	14082
60°	45088	39680	19117	15672	13709
65°	34190	29585	16830	14507	12185
70°	22911	20796	12891	12891	10021
75°	12310	12310	8517	8517	7586
80°	2777	5653	4265	5653	7042
85°	0	2766	2766	5533	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 98763 cd/sqm



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CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCLSWWR 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	4.0
10°-20°	84.4	12.3
20°-30°	130.2	18.9
30°-40°	147.7	21.5
40°-50°	133.6	19.4
50°-60°	93.5	13.6
60°-70°	51.4	7.5
70°-80°	17.2	2.5
80°-90°	2.3	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°	242.4	35.2
0°-40°	390.1	56.7
0°-60°	617.2	89.7
0°-90°	688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	688.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	282	282	282	282	282	
5°	376	343	279	233	218	38
15°	538	437	250	162	141	153
25°	609	451	205	117	101	279
35°	552	381	156	88	77	343
45°	406	273	111	70	63	307
55°	195	169	71	54	47	179
65°	84	73	41	36	30	84
75°	18	18	13	13	11	21
85°	0	1	1	3	3	1
90°	0	0	0	0	0	



TEST NUMBER: P1317861

CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCLSWWR 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7
2.5°	321.5	324.4	325.8	322.9	321.5	320.1	317.3	315.8	313.0	310.1	308.7
5°	375.6	375.6	375.6	372.7	368.5	365.6	359.9	355.7	348.6	342.9	337.2
7.5°	424.0	424.0	422.5	418.3	415.4	408.3	401.2	395.5	384.1	375.6	364.2
10°	463.8	463.8	462.4	455.3	451.0	442.4	435.3	425.4	414.0	402.6	389.8
12.5°	502.2	502.2	496.5	490.8	482.3	470.9	460.9	451.0	435.3	422.5	406.9
15°	537.8	537.8	534.9	525.0	513.6	500.8	486.5	472.3	453.8	436.8	419.7
17.5°	569.1	567.6	563.4	552.0	540.6	525.0	507.9	490.8	468.1	448.1	426.8
20°	590.4	590.4	584.7	571.9	559.1	542.0	523.5	503.6	479.4	455.3	429.6
22.5°	604.6	603.2	597.5	584.7	569.1	552.0	530.7	509.3	482.3	455.3	428.2
25°	608.9	607.5	601.8	587.6	571.9	553.4	530.7	507.9	479.4	451.0	421.1
27.5°	606.1	604.6	598.9	583.3	567.6	546.3	523.5	499.4	470.9	441.0	411.1
30°	597.5	593.2	587.6	573.3	556.3	534.9	510.7	483.7	455.3	424.0	394.1
32.5°	576.2	576.2	569.1	554.8	537.8	515.0	490.8	465.2	433.9	404.0	372.7
35°	552.0	550.6	544.9	529.2	513.6	492.2	468.1	441.0	411.1	381.3	351.4
37.5°	522.1	520.7	515.0	500.8	483.7	463.8	438.2	412.6	384.1	354.2	327.2
40°	489.4	486.5	479.4	468.1	453.8	431.1	408.3	382.7	355.7	328.6	301.6
42.5°	452.4	449.6	443.9	435.3	418.3	398.3	377.0	352.8	327.2	300.2	280.3
45°	405.5	405.5	402.6	394.1	381.3	365.6	342.9	321.5	297.3	273.2	251.8
47.5°	347.1	350.0	348.6	344.3	338.6	324.4	308.7	290.2	267.5	246.1	226.2
50°	295.9	297.3	298.8	295.9	291.6	281.7	271.7	260.3	240.4	220.5	202.0
52.5°	237.6	241.9	241.9	243.3	243.3	240.4	237.6	224.8	214.8	194.9	177.8
55°	194.9	194.9	194.9	197.7	199.2	200.6	197.7	194.9	183.5	169.3	153.6
57.5°	159.3	159.3	162.2	160.8	160.8	163.6	163.6	162.2	155.1	142.3	128.0
60°	130.9	130.9	130.9	130.9	132.3	132.3	132.3	132.3	126.6	115.2	103.9
62.5°	105.3	105.3	105.3	106.7	106.7	106.7	108.1	106.7	101.0	92.5	82.5
65°	83.9	82.5	83.9	83.9	85.4	85.4	85.4	83.9	78.2	72.6	65.4
67.5°	62.6	64.0	64.0	64.0	65.4	66.9	65.4	64.0	59.8	54.1	51.2
70°	45.5	46.9	46.9	46.9	48.4	49.8	48.4	46.9	44.1	41.3	38.4
72.5°	29.9	31.3	31.3	32.7	34.1	34.1	32.7	32.7	31.3	28.5	27.0
75°	18.5	18.5	19.9	19.9	21.3	21.3	21.3	19.9	19.9	18.5	18.5
77.5°	8.5	8.5	10.0	10.0	10.0	11.4	11.4	11.4	11.4	11.4	10.0
80°	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3	5.7	5.7	5.7
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1317861

CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCLSWWR 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7
2.5°	305.9	301.6	295.9	281.7	267.5	256.1	249.0	247.5
5°	330.1	322.9	310.1	278.8	253.2	233.3	221.9	217.7
7.5°	354.2	341.4	322.9	274.6	236.2	212.0	199.2	193.5
10°	374.2	358.5	334.3	268.9	221.9	193.5	177.8	173.6
12.5°	389.8	371.3	341.4	260.3	207.7	176.4	160.8	156.5
15°	399.8	379.8	345.7	250.4	193.5	162.2	146.5	140.8
17.5°	404.0	379.8	344.3	240.4	180.7	149.4	133.7	129.5
20°	404.0	377.0	340.0	229.0	167.9	136.6	122.3	118.1
22.5°	399.8	371.3	330.1	216.2	156.5	126.6	112.4	108.1
25°	391.2	359.9	318.7	204.9	145.1	116.7	103.9	101.0
27.5°	378.4	347.1	304.4	193.5	135.2	108.1	96.7	93.9
30°	362.8	331.5	288.8	179.3	125.2	101.0	91.1	86.8
32.5°	342.9	313.0	271.7	167.9	116.7	93.9	85.4	82.5
35°	321.5	294.5	253.2	156.5	108.1	88.2	79.7	76.8
37.5°	300.2	271.7	237.6	143.7	101.0	82.5	75.4	72.6
40°	277.4	256.1	220.5	132.3	95.3	78.2	71.1	69.7
42.5°	254.7	231.9	196.3	122.3	88.2	72.6	66.9	65.4
45°	227.6	206.3	177.8	111.0	82.5	69.7	64.0	62.6
47.5°	204.9	184.9	159.3	101.0	76.8	65.4	59.8	58.3
50°	183.5	163.6	139.4	89.6	71.1	61.2	56.9	54.1
52.5°	159.3	142.3	120.9	79.7	65.4	56.9	52.6	51.2
55°	138.0	120.9	101.0	71.1	59.8	54.1	48.4	46.9
57.5°	113.8	99.6	85.4	62.6	54.1	48.4	45.5	42.7
60°	92.5	82.5	72.6	55.5	48.4	45.5	41.3	39.8
62.5°	75.4	68.3	61.2	48.4	42.7	39.8	37.0	34.1
65°	59.8	55.5	49.8	41.3	37.0	35.6	32.7	29.9
67.5°	46.9	44.1	39.8	32.7	31.3	29.9	27.0	24.2
70°	35.6	34.1	31.3	25.6	24.2	25.6	22.8	19.9
72.5°	25.6	24.2	22.8	18.5	18.5	18.5	17.1	14.2
75°	17.1	15.6	14.2	12.8	12.8	12.8	12.8	11.4
77.5°	10.0	10.0	8.5	7.1	8.5	8.5	10.0	10.0
80°	4.3	4.3	4.3	4.3	5.7	5.7	7.1	7.1
82.5°	2.8	2.8	2.8	2.8	4.3	4.3	4.3	4.3
85°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)