

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: P1314069

Luminaire Tested: LDSQA3D20R709727D010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314069
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: LDSQA3D20R709727D010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

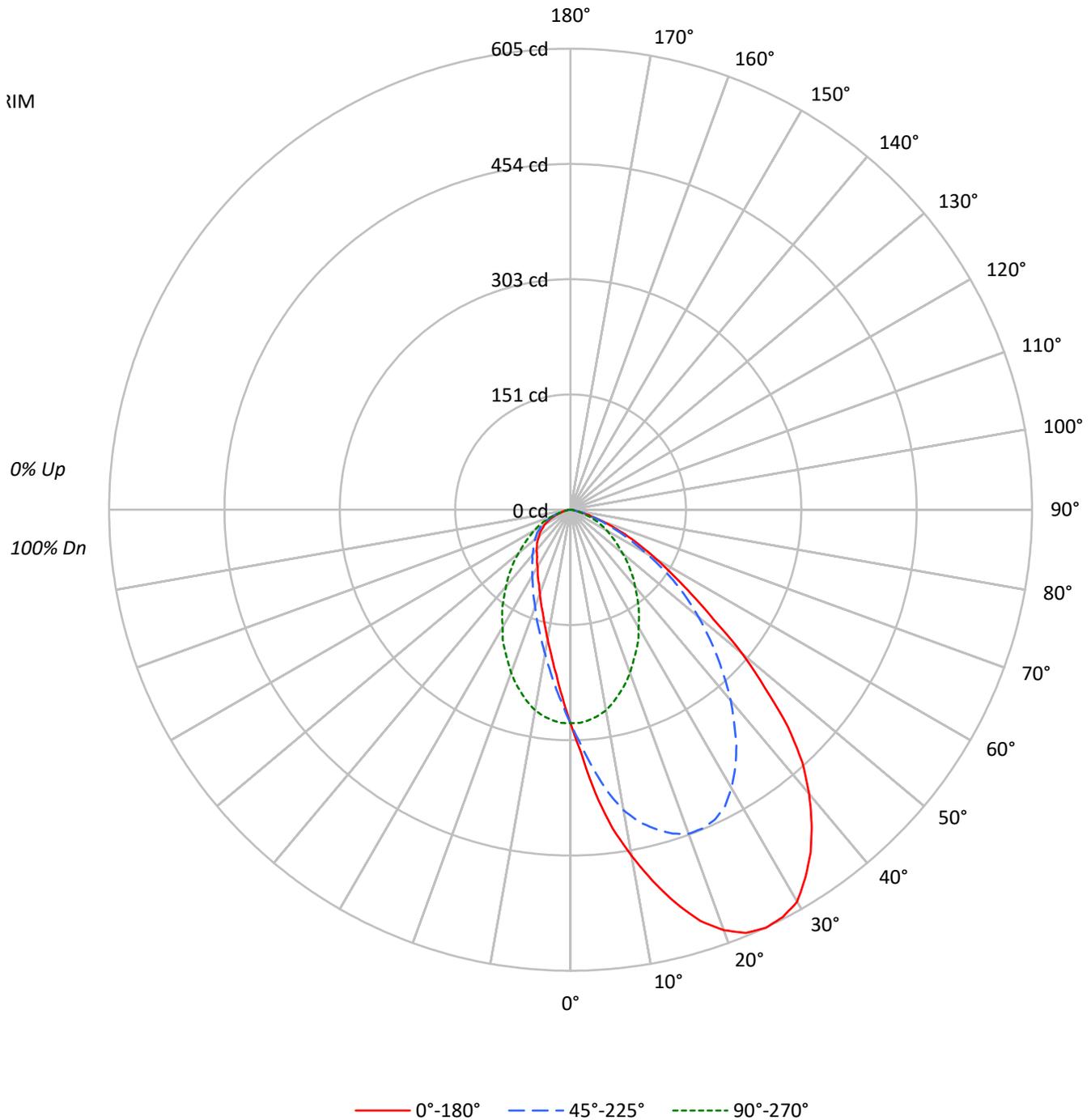
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 684.0 lumens
Efficiency: N/A
Efficacy: 23.7 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): 28.8
Input Voltage (V): NR
Input Current (A_{in}): 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	100	100	100	100	
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88	88	
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76	76	76	76	
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66	66	66	66	
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58	58	58	58	
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51	51	
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36	36	36	36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30	30	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	48222	48222	48222	48222	48222
5°	64554	58935	47922	40108	37411
10°	80637	70004	46745	33647	30184
15°	95318	77417	44378	28742	24962
20°	107583	82950	41732	24889	21517
25°	115042	85208	38708	22043	19079
30°	118126	83822	35438	19966	17162
35°	115382	79704	32714	18438	16063
40°	109375	73449	29564	17491	15580
45°	98179	66151	26865	16879	15149
50°	78825	58730	23873	16290	14388
55°	58191	50534	21228	16124	14022
60°	44812	39473	19013	15603	13640
65°	33987	29382	16708	14426	12103
70°	22811	20645	12840	12840	9970
75°	12244	12244	8451	8451	7519
80°	2777	5653	4166	5653	7042
85°	0	2766	2766	5533	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 98179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.6	4.0
10°-20°	83.9	12.3
20°-30°	129.4	18.9
30°-40°	146.8	21.5
40°-50°	132.9	19.4
50°-60°	92.9	13.6
60°-70°	51.1	7.5
70°-80°	17.1	2.5
80°-90°	2.2	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°	241.0	35.2
0°-40°	387.8	56.7
0°-60°	613.6	89.7
0°-90°	684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	684.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	280	280	280	280	280	
5°	373	341	277	232	216	38
15°	535	434	249	161	140	152
25°	605	448	204	116	100	278
35°	549	379	156	88	76	341
45°	403	272	110	69	62	305
55°	194	168	71	54	47	178
65°	83	72	41	35	30	83
75°	18	18	13	13	11	21
85°	0	1	1	3	3	1
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°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	319.7	322.5	323.9	321.1	319.7	318.2	315.4	314.0	311.2	308.3	306.9
5°	373.4	373.4	373.4	370.6	366.3	363.5	357.8	353.6	346.5	340.9	335.2
7.5°	421.5	421.5	420.1	415.8	413.0	405.9	398.9	393.2	381.9	373.4	362.1
10°	461.1	461.1	459.7	452.6	448.4	439.9	432.8	422.9	411.6	400.3	387.5
12.5°	499.3	499.3	493.6	488.0	479.5	468.2	458.3	448.4	432.8	420.1	404.5
15°	534.6	534.6	531.8	521.9	510.6	497.9	483.7	469.6	451.2	434.2	417.2
17.5°	565.8	564.3	560.1	548.8	537.5	521.9	504.9	488.0	465.3	445.5	424.3
20°	587.0	587.0	581.3	568.6	555.9	538.9	520.5	500.7	476.6	452.6	427.1
22.5°	601.1	599.7	594.0	581.3	565.8	548.8	527.6	506.4	479.5	452.6	425.7
25°	605.4	603.9	598.3	584.1	568.6	550.2	527.6	504.9	476.6	448.4	418.7
27.5°	602.5	601.1	595.5	579.9	564.3	543.1	520.5	496.4	468.2	438.5	408.8
30°	594.0	589.8	584.1	570.0	553.0	531.8	507.8	480.9	452.6	421.5	391.8
32.5°	572.8	572.8	565.8	551.6	534.6	512.0	488.0	462.5	431.4	401.7	370.6
35°	548.8	547.4	541.7	526.2	510.6	489.4	465.3	438.5	408.8	379.1	349.4
37.5°	519.1	517.7	512.0	497.9	480.9	461.1	435.6	410.2	381.9	352.2	325.3
40°	486.5	483.7	476.6	465.3	451.2	428.6	405.9	380.5	353.6	326.7	299.9
42.5°	449.8	446.9	441.3	432.8	415.8	396.0	374.8	350.8	325.3	298.4	278.6
45°	403.1	403.1	400.3	391.8	379.1	363.5	340.9	319.7	295.6	271.6	250.3
47.5°	345.1	347.9	346.5	342.3	336.6	322.5	306.9	288.5	265.9	244.7	224.9
50°	294.2	295.6	297.0	294.2	289.9	280.0	270.1	258.8	239.0	219.2	200.8
52.5°	236.2	240.4	240.4	241.9	241.9	239.0	236.2	223.5	213.6	193.8	176.8
55°	193.8	193.8	193.8	196.6	198.0	199.4	196.6	193.8	182.5	168.3	152.8
57.5°	158.4	158.4	161.2	159.8	159.8	162.7	162.7	161.2	154.2	141.4	127.3
60°	130.1	130.1	130.1	130.1	131.5	131.5	131.5	131.5	125.9	114.6	103.3
62.5°	104.7	104.7	104.7	106.1	106.1	106.1	107.5	106.1	100.4	91.9	82.0
65°	83.4	82.0	83.4	83.4	84.9	84.9	84.9	83.4	77.8	72.1	65.1
67.5°	62.2	63.6	63.6	63.6	65.1	66.5	65.1	63.6	59.4	53.7	50.9
70°	45.3	46.7	46.7	46.7	48.1	49.5	48.1	46.7	43.8	41.0	38.2
72.5°	29.7	31.1	31.1	32.5	33.9	33.9	32.5	32.5	31.1	28.3	26.9
75°	18.4	18.4	19.8	19.8	21.2	21.2	21.2	19.8	19.8	18.4	18.4
77.5°	8.5	8.5	9.9	9.9	9.9	11.3	11.3	11.3	11.3	11.3	9.9
80°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	304.1	299.9	294.2	280.0	265.9	254.6	247.5	246.1
5°	328.1	321.1	308.3	277.2	251.8	232.0	220.6	216.4
7.5°	352.2	339.5	321.1	273.0	234.8	210.7	198.0	192.4
10°	372.0	356.4	332.4	267.3	220.6	192.4	176.8	172.6
12.5°	387.5	369.2	339.5	258.8	206.5	175.4	159.8	155.6
15°	397.4	377.6	343.7	248.9	192.4	161.2	145.7	140.0
17.5°	401.7	377.6	342.3	239.0	179.6	148.5	133.0	128.7
20°	401.7	374.8	338.0	227.7	166.9	135.8	121.6	117.4
22.5°	397.4	369.2	328.1	215.0	155.6	125.9	111.7	107.5
25°	389.0	357.8	316.8	203.7	144.3	116.0	103.3	100.4
27.5°	376.2	345.1	302.7	192.4	134.4	107.5	96.2	93.3
30°	360.7	329.6	287.1	178.2	124.5	100.4	90.5	86.3
32.5°	340.9	311.2	270.1	166.9	116.0	93.3	84.9	82.0
35°	319.7	292.8	251.8	155.6	107.5	87.7	79.2	76.4
37.5°	298.4	270.1	236.2	142.9	100.4	82.0	75.0	72.1
40°	275.8	254.6	219.2	131.5	94.8	77.8	70.7	69.3
42.5°	253.2	230.5	195.2	121.6	87.7	72.1	66.5	65.1
45°	226.3	205.1	176.8	110.3	82.0	69.3	63.6	62.2
47.5°	203.7	183.9	158.4	100.4	76.4	65.1	59.4	58.0
50°	182.5	162.7	138.6	89.1	70.7	60.8	56.6	53.7
52.5°	158.4	141.4	120.2	79.2	65.1	56.6	52.3	50.9
55°	137.2	120.2	100.4	70.7	59.4	53.7	48.1	46.7
57.5°	113.2	99.0	84.9	62.2	53.7	48.1	45.3	42.4
60°	91.9	82.0	72.1	55.2	48.1	45.3	41.0	39.6
62.5°	75.0	67.9	60.8	48.1	42.4	39.6	36.8	33.9
65°	59.4	55.2	49.5	41.0	36.8	35.4	32.5	29.7
67.5°	46.7	43.8	39.6	32.5	31.1	29.7	26.9	24.0
70°	35.4	33.9	31.1	25.5	24.0	25.5	22.6	19.8
72.5°	25.5	24.0	22.6	18.4	18.4	18.4	17.0	14.1
75°	17.0	15.6	14.1	12.7	12.7	12.7	12.7	11.3
77.5°	9.9	9.9	8.5	7.1	8.5	8.5	9.9	9.9
80°	4.2	4.2	4.2	4.2	5.7	5.7	7.1	7.1
82.5°	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2
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)