

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: P1310756

Luminaire Tested: LDSQA3D20R709035D010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310756
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: LDSQA3D20R709035D010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

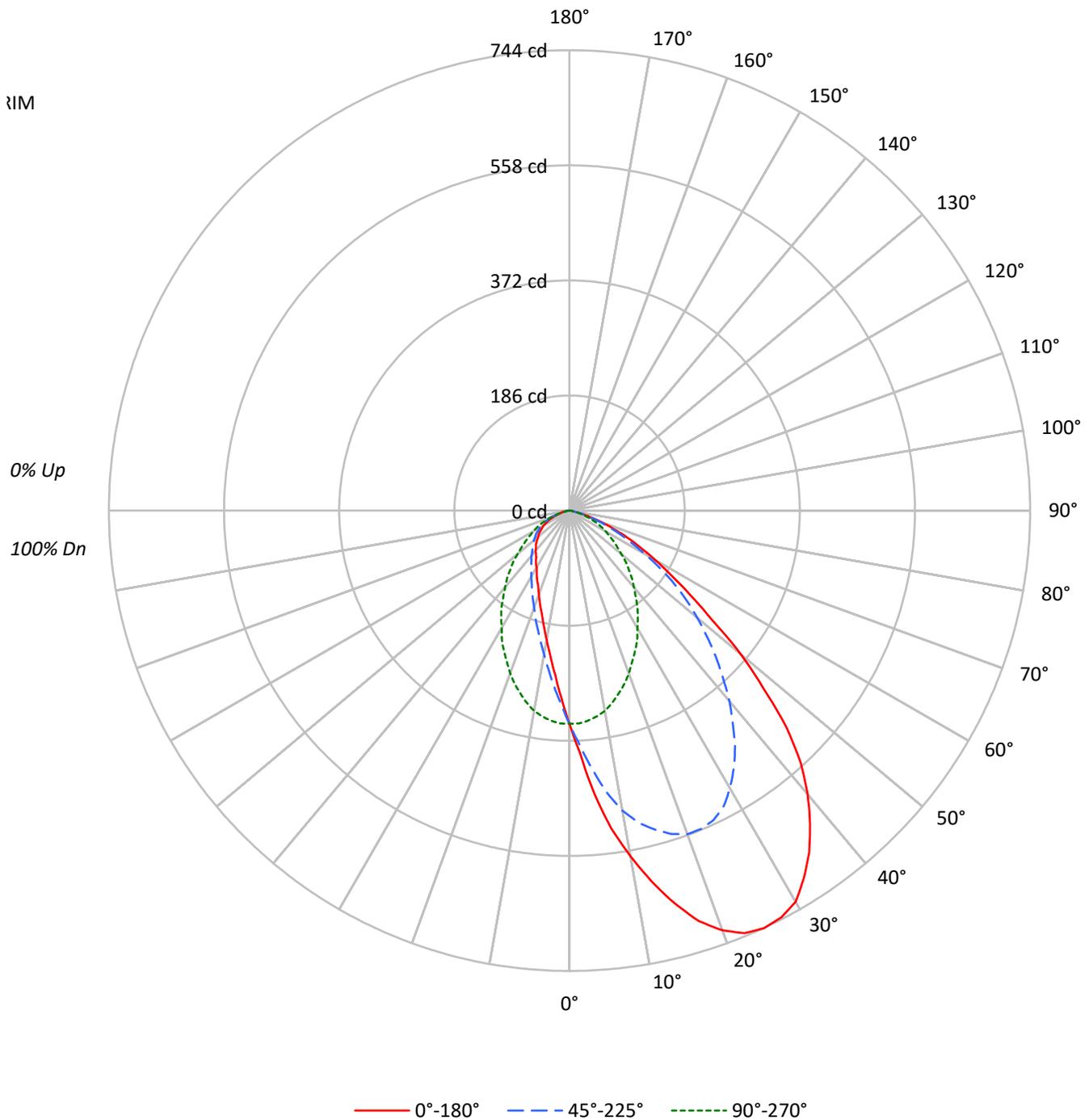
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 841.0 lumens
Efficiency: N/A
Efficacy: 29.2 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°	59296	59296	59296	59296	59296
5°	79369	72454	58935	49306	46004
10°	99139	86058	57483	41359	37109
15°	117213	95193	54577	35339	30703
20°	132270	101993	51317	30589	26447
25°	141437	104762	47583	27098	23468
30°	145251	103052	43571	24560	21100
35°	141852	97995	40220	22664	19742
40°	134488	90310	36354	21493	19155
45°	120708	81325	33027	20751	18632
50°	96911	72234	29365	20041	17710
55°	71522	62124	26123	19847	17235
60°	55111	48532	23353	19151	16774
65°	41811	36146	20539	17727	14874
70°	27997	25379	15761	15761	12236
75°	15038	15038	10447	10447	9249
80°	3471	6943	5157	6943	8629
85°	0	3359	3359	6916	6916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 120708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	4.0
10°-20°	103.2	12.3
20°-30°	159.1	18.9
30°-40°	180.5	21.5
40°-50°	163.4	19.4
50°-60°	114.2	13.6
60°-70°	62.8	7.5
70°-80°	21.0	2.5
80°-90°	2.8	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°	296.3	35.2
0°-40°	476.8	56.7
0°-60°	754.4	89.7
0°-90°	841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	841.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	344	344	344	344	344	
5°	459	419	341	285	266	47
15°	657	534	306	198	172	187
25°	744	551	250	143	124	341
35°	675	466	191	108	94	420
45°	496	334	136	85	76	376
55°	238	207	87	66	57	219
65°	103	89	50	44	36	102
75°	23	23	16	16	14	26
85°	0	2	2	4	4	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°	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3
2.5°	393.0	396.5	398.2	394.8	393.0	391.3	387.8	386.1	382.6	379.1	377.4
5°	459.1	459.1	459.1	455.6	450.4	446.9	440.0	434.8	426.1	419.1	412.2
7.5°	518.2	518.2	516.5	511.3	507.8	499.1	490.4	483.5	469.5	459.1	445.2
10°	566.9	566.9	565.2	556.5	551.3	540.8	532.1	520.0	506.1	492.1	476.5
12.5°	613.9	613.9	606.9	600.0	589.5	575.6	563.4	551.3	532.1	516.5	497.4
15°	657.4	657.4	653.9	641.7	627.8	612.1	594.7	577.4	554.8	533.9	513.0
17.5°	695.6	693.9	688.7	674.7	660.8	641.7	620.8	600.0	572.1	547.8	521.7
20°	721.7	721.7	714.7	699.1	683.4	662.6	640.0	615.6	586.1	556.5	525.2
22.5°	739.1	737.4	730.4	714.7	695.6	674.7	648.7	622.6	589.5	556.5	523.4
25°	744.3	742.6	735.6	718.2	699.1	676.5	648.7	620.8	586.1	551.3	514.8
27.5°	740.8	739.1	732.1	713.0	693.9	667.8	640.0	610.4	575.6	539.1	502.6
30°	730.4	725.2	718.2	700.8	680.0	653.9	624.3	591.3	556.5	518.2	481.7
32.5°	704.3	704.3	695.6	678.2	657.4	629.5	600.0	568.7	530.4	493.9	455.6
35°	674.7	673.0	666.1	646.9	627.8	601.7	572.1	539.1	502.6	466.1	429.5
37.5°	638.2	636.5	629.5	612.1	591.3	566.9	535.6	504.3	469.5	433.0	400.0
40°	598.2	594.7	586.1	572.1	554.8	526.9	499.1	467.8	434.8	401.7	368.7
42.5°	553.0	549.5	542.6	532.1	511.3	486.9	460.8	431.3	400.0	366.9	342.6
45°	495.6	495.6	492.1	481.7	466.1	446.9	419.1	393.0	363.5	333.9	307.8
47.5°	424.3	427.8	426.1	420.8	413.9	396.5	377.4	354.8	326.9	300.9	276.5
50°	361.7	363.5	365.2	361.7	356.5	344.3	332.2	318.2	293.9	269.6	246.9
52.5°	290.4	295.6	295.6	297.4	297.4	293.9	290.4	274.8	262.6	238.2	217.4
55°	238.2	238.2	238.2	241.7	243.5	245.2	241.7	238.2	224.3	206.9	187.8
57.5°	194.8	194.8	198.2	196.5	196.5	200.0	200.0	198.2	189.6	173.9	156.5
60°	160.0	160.0	160.0	160.0	161.7	161.7	161.7	161.7	154.8	140.9	126.9
62.5°	128.7	128.7	128.7	130.4	130.4	130.4	132.2	130.4	123.5	113.0	100.9
65°	102.6	100.9	102.6	102.6	104.3	104.3	104.3	102.6	95.6	88.7	80.0
67.5°	76.5	78.3	78.3	78.3	80.0	81.7	80.0	78.3	73.0	66.1	62.6
70°	55.6	57.4	57.4	57.4	59.1	60.9	59.1	57.4	53.9	50.4	47.0
72.5°	36.5	38.3	38.3	40.0	41.7	41.7	40.0	40.0	38.3	34.8	33.0
75°	22.6	22.6	24.3	24.3	26.1	26.1	26.1	24.3	24.3	22.6	22.6
77.5°	10.4	10.4	12.2	12.2	12.2	13.9	13.9	13.9	13.9	13.9	12.2
80°	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2	7.0	7.0	7.0
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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°	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3
2.5°	373.9	368.7	361.7	344.3	326.9	313.0	304.3	302.6
5°	403.5	394.8	379.1	340.9	309.5	285.2	271.3	266.1
7.5°	433.0	417.4	394.8	335.6	288.7	259.1	243.5	236.5
10°	457.4	438.2	408.7	328.7	271.3	236.5	217.4	212.2
12.5°	476.5	453.9	417.4	318.2	253.9	215.6	196.5	191.3
15°	488.7	464.3	422.6	306.1	236.5	198.2	179.1	172.2
17.5°	493.9	464.3	420.8	293.9	220.9	182.6	163.5	158.3
20°	493.9	460.8	415.6	280.0	205.2	166.9	149.6	144.3
22.5°	488.7	453.9	403.5	264.3	191.3	154.8	137.4	132.2
25°	478.2	440.0	389.5	250.4	177.4	142.6	126.9	123.5
27.5°	462.6	424.3	372.2	236.5	165.2	132.2	118.3	114.8
30°	443.5	405.2	353.0	219.1	153.0	123.5	111.3	106.1
32.5°	419.1	382.6	332.2	205.2	142.6	114.8	104.3	100.9
35°	393.0	360.0	309.5	191.3	132.2	107.8	97.4	93.9
37.5°	366.9	332.2	290.4	175.6	123.5	100.9	92.2	88.7
40°	339.1	313.0	269.6	161.7	116.5	95.6	87.0	85.2
42.5°	311.3	283.5	240.0	149.6	107.8	88.7	81.7	80.0
45°	278.2	252.2	217.4	135.6	100.9	85.2	78.3	76.5
47.5°	250.4	226.1	194.8	123.5	93.9	80.0	73.0	71.3
50°	224.3	200.0	170.4	109.6	87.0	74.8	69.6	66.1
52.5°	194.8	173.9	147.8	97.4	80.0	69.6	64.3	62.6
55°	168.7	147.8	123.5	87.0	73.0	66.1	59.1	57.4
57.5°	139.1	121.7	104.3	76.5	66.1	59.1	55.6	52.2
60°	113.0	100.9	88.7	67.8	59.1	55.6	50.4	48.7
62.5°	92.2	83.5	74.8	59.1	52.2	48.7	45.2	41.7
65°	73.0	67.8	60.9	50.4	45.2	43.5	40.0	36.5
67.5°	57.4	53.9	48.7	40.0	38.3	36.5	33.0	29.6
70°	43.5	41.7	38.3	31.3	29.6	31.3	27.8	24.3
72.5°	31.3	29.6	27.8	22.6	22.6	22.6	20.9	17.4
75°	20.9	19.1	17.4	15.7	15.7	15.7	15.7	13.9
77.5°	12.2	12.2	10.4	8.7	10.4	10.4	12.2	12.2
80°	5.2	5.2	5.2	5.2	7.0	7.0	8.7	8.7
82.5°	3.5	3.5	3.5	3.5	5.2	5.2	5.2	5.2
85°	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)