

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: P1309638

Luminaire Tested: LDSQA3D20R709030D010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309638
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: LDSQA3D20R709030D010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

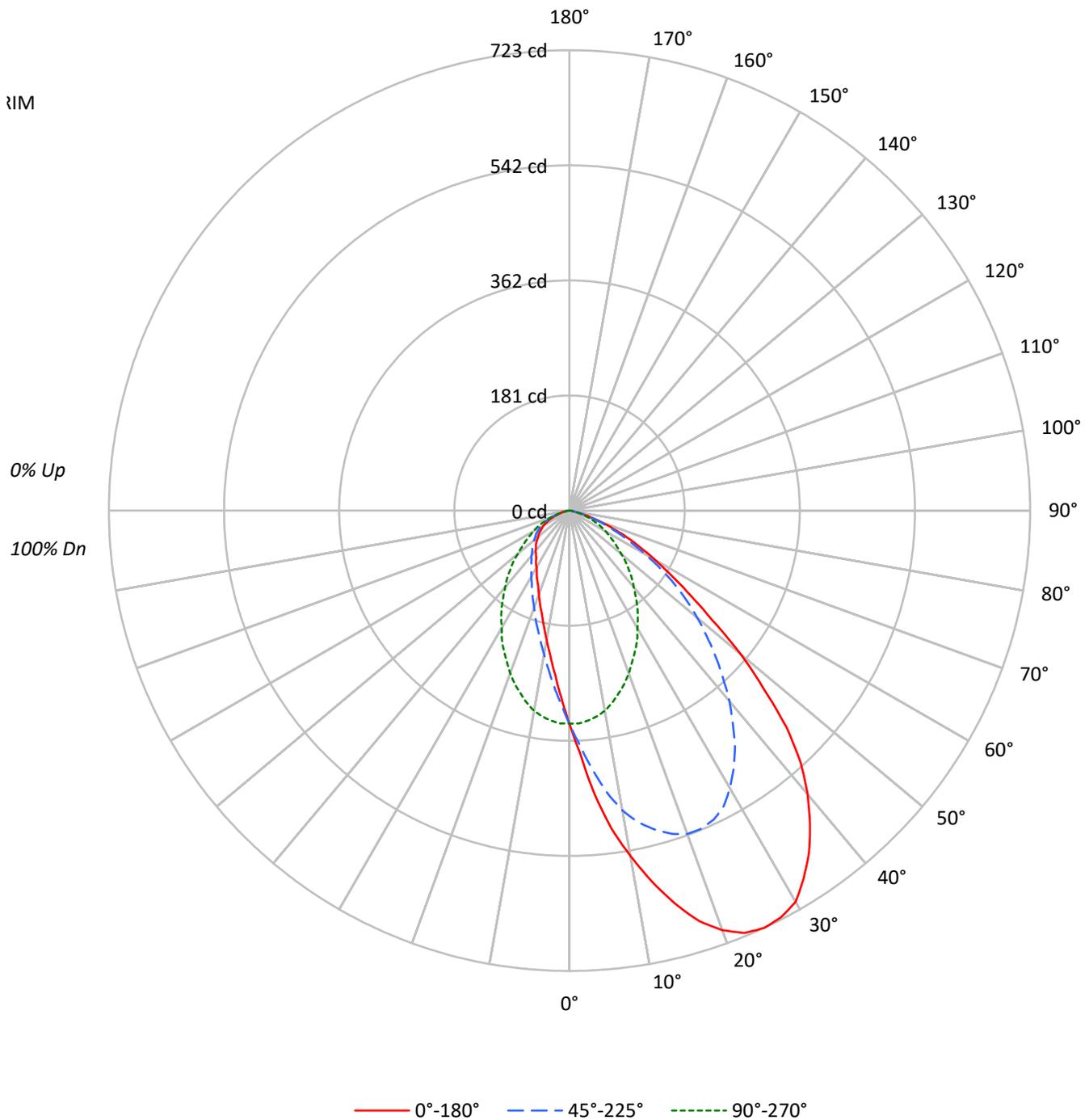
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 817.0 lumens
Efficiency: N/A
Efficacy: 28.4 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	
RW	70	50	30	10	70	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°	57608	57608	57608	57608	57608
5°	77105	70380	57241	47905	44690
10°	96306	83610	55839	40187	36043
15°	113861	92465	53008	34340	29829
20°	128494	99079	49851	29727	25695
25°	137408	101759	46233	26319	22784
30°	141115	100109	42338	23844	20503
35°	137816	95199	39064	22013	19174
40°	130666	87748	35319	20886	18615
45°	117274	79011	32101	20167	18096
50°	94151	70171	28508	19452	17201
55°	69480	60352	25372	19277	16755
60°	53527	47120	22699	18634	16292
65°	40629	35128	19968	17197	14467
70°	27242	24674	15308	15308	11934
75°	14639	14639	10114	10114	8983
80°	3372	6744	5058	6744	8331
85°	0	3359	3359	6719	6719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 117274 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	4.0
10°-20°	100.3	12.3
20°-30°	154.6	18.9
30°-40°	175.4	21.5
40°-50°	158.7	19.4
50°-60°	111.0	13.6
60°-70°	61.0	7.5
70°-80°	20.4	2.5
80°-90°	2.7	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°	287.8	35.2
0°-40°	463.2	56.7
0°-60°	732.9	89.7
0°-90°	817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	334	334	334	334	334	
5°	446	407	331	277	258	46
15°	639	519	297	193	167	182
25°	723	536	243	138	120	332
35°	656	453	186	105	91	408
45°	482	324	132	83	74	365
55°	231	201	84	64	56	213
65°	100	86	49	42	36	100
75°	22	22	15	15	14	25
85°	0	2	2	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°	334.5	334.5	334.5	334.5	334.5	334.5	334.5	334.5	334.5	334.5	334.5
2.5°	381.8	385.2	386.9	383.5	381.8	380.1	376.7	375.0	371.7	368.3	366.6
5°	446.0	446.0	446.0	442.6	437.6	434.2	427.4	422.4	413.9	407.1	400.4
7.5°	503.4	503.4	501.8	496.7	493.3	484.9	476.4	469.7	456.1	446.0	432.5
10°	550.7	550.7	549.1	540.6	535.5	525.4	517.0	505.1	491.6	478.1	462.9
12.5°	596.4	596.4	589.6	582.8	572.7	559.2	547.4	535.5	517.0	501.8	483.2
15°	638.6	638.6	635.2	623.4	609.9	594.7	577.8	560.9	538.9	518.6	498.4
17.5°	675.8	674.1	669.0	655.5	642.0	623.4	603.1	582.8	555.8	532.2	506.8
20°	701.1	701.1	694.3	679.1	663.9	643.7	621.7	598.1	569.3	540.6	510.2
22.5°	718.0	716.3	709.6	694.3	675.8	655.5	630.1	604.8	572.7	540.6	508.5
25°	723.1	721.4	714.6	697.7	679.1	657.2	630.1	603.1	569.3	535.5	500.1
27.5°	719.7	718.0	711.2	692.7	674.1	648.7	621.7	593.0	559.2	523.7	488.2
30°	709.6	704.5	697.7	680.8	660.6	635.2	606.5	574.4	540.6	503.4	468.0
32.5°	684.2	684.2	675.8	658.9	638.6	611.6	582.8	552.4	515.3	479.8	442.6
35°	655.5	653.8	647.0	628.5	609.9	584.5	555.8	523.7	488.2	452.8	417.3
37.5°	620.0	618.3	611.6	594.7	574.4	550.7	520.3	489.9	456.1	420.7	388.6
40°	581.2	577.8	569.3	555.8	538.9	511.9	484.9	454.5	422.4	390.3	358.2
42.5°	537.2	533.9	527.1	517.0	496.7	473.0	447.7	419.0	388.6	356.5	332.8
45°	481.5	481.5	478.1	468.0	452.8	434.2	407.1	381.8	353.1	324.4	299.0
47.5°	412.2	415.6	413.9	408.8	402.1	385.2	366.6	344.6	317.6	292.3	268.6
50°	351.4	353.1	354.8	351.4	346.3	334.5	322.7	309.2	285.5	261.9	239.9
52.5°	282.1	287.2	287.2	288.9	288.9	285.5	282.1	266.9	255.1	231.4	211.2
55°	231.4	231.4	231.4	234.8	236.5	238.2	234.8	231.4	217.9	201.0	182.5
57.5°	189.2	189.2	192.6	190.9	190.9	194.3	194.3	192.6	184.1	168.9	152.0
60°	155.4	155.4	155.4	155.4	157.1	157.1	157.1	157.1	150.4	136.8	123.3
62.5°	125.0	125.0	125.0	126.7	126.7	126.7	128.4	126.7	119.9	109.8	98.0
65°	99.7	98.0	99.7	99.7	101.4	101.4	101.4	99.7	92.9	86.2	77.7
67.5°	74.3	76.0	76.0	76.0	77.7	79.4	77.7	76.0	71.0	64.2	60.8
70°	54.1	55.8	55.8	55.8	57.4	59.1	57.4	55.8	52.4	49.0	45.6
72.5°	35.5	37.2	37.2	38.9	40.5	40.5	38.9	38.9	37.2	33.8	32.1
75°	22.0	22.0	23.7	23.7	25.3	25.3	25.3	23.7	23.7	22.0	22.0
77.5°	10.1	10.1	11.8	11.8	11.8	13.5	13.5	13.5	13.5	13.5	11.8
80°	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	6.8	6.8	6.8
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
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°	334.5	334.5	334.5	334.5	334.5	334.5	334.5	334.5
2.5°	363.2	358.2	351.4	334.5	317.6	304.1	295.6	294.0
5°	391.9	383.5	368.3	331.1	300.7	277.1	263.5	258.5
7.5°	420.7	405.5	383.5	326.1	280.4	251.7	236.5	229.8
10°	444.3	425.7	397.0	319.3	263.5	229.8	211.2	206.1
12.5°	462.9	440.9	405.5	309.2	246.7	209.5	190.9	185.8
15°	474.7	451.1	410.5	297.3	229.8	192.6	174.0	167.3
17.5°	479.8	451.1	408.8	285.5	214.6	177.4	158.8	153.7
20°	479.8	447.7	403.8	272.0	199.4	162.2	145.3	140.2
22.5°	474.7	440.9	391.9	256.8	185.8	150.4	133.5	128.4
25°	464.6	427.4	378.4	243.3	172.3	138.5	123.3	119.9
27.5°	449.4	412.2	361.5	229.8	160.5	128.4	114.9	111.5
30°	430.8	393.6	342.9	212.9	148.7	119.9	108.1	103.1
32.5°	407.1	371.7	322.7	199.4	138.5	111.5	101.4	98.0
35°	381.8	349.7	300.7	185.8	128.4	104.7	94.6	91.2
37.5°	356.5	322.7	282.1	170.6	119.9	98.0	89.5	86.2
40°	329.4	304.1	261.9	157.1	113.2	92.9	84.5	82.8
42.5°	302.4	275.4	233.1	145.3	104.7	86.2	79.4	77.7
45°	270.3	245.0	211.2	131.8	98.0	82.8	76.0	74.3
47.5°	243.3	219.6	189.2	119.9	91.2	77.7	71.0	69.3
50°	217.9	194.3	165.6	106.4	84.5	72.6	67.6	64.2
52.5°	189.2	168.9	143.6	94.6	77.7	67.6	62.5	60.8
55°	163.9	143.6	119.9	84.5	71.0	64.2	57.4	55.8
57.5°	135.2	118.3	101.4	74.3	64.2	57.4	54.1	50.7
60°	109.8	98.0	86.2	65.9	57.4	54.1	49.0	47.3
62.5°	89.5	81.1	72.6	57.4	50.7	47.3	43.9	40.5
65°	71.0	65.9	59.1	49.0	43.9	42.2	38.9	35.5
67.5°	55.8	52.4	47.3	38.9	37.2	35.5	32.1	28.7
70°	42.2	40.5	37.2	30.4	28.7	30.4	27.0	23.7
72.5°	30.4	28.7	27.0	22.0	22.0	22.0	20.3	16.9
75°	20.3	18.6	16.9	15.2	15.2	15.2	15.2	13.5
77.5°	11.8	11.8	10.1	8.4	10.1	10.1	11.8	11.8
80°	5.1	5.1	5.1	5.1	6.8	6.8	8.4	8.4
82.5°	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1
85°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
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)