

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: P1311728

Luminaire Tested: LDSQA3D17R709040DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311728
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: LDSQA3D17R709040DE010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

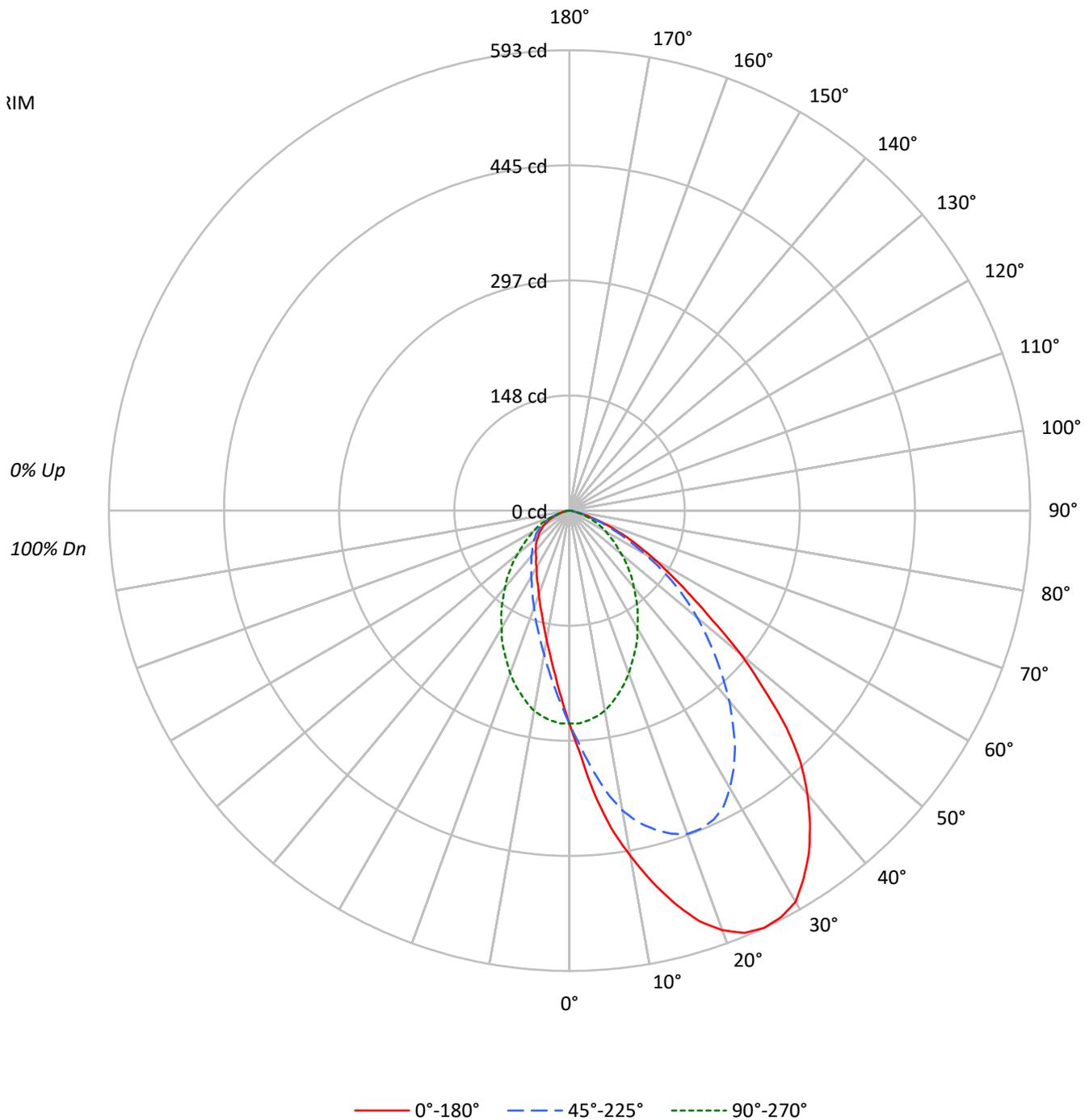
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.0 lumens
Efficiency: N/A
Efficacy: 31.6 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): 21.2
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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	90	90	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	60	60	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	47241	47241	47241	47241	47241
5°	63240	57725	46937	39278	36651
10°	78993	68570	45783	32947	29555
15°	93375	75830	43469	28153	24462
20°	105383	81246	40889	24376	21077
25°	112686	83460	37910	21587	18699
30°	115720	82112	34722	19568	16804
35°	113007	78064	32041	18060	15726
40°	107150	71943	28957	17131	15265
45°	96157	64787	26329	16538	14857
50°	77218	57525	23390	15969	14093
55°	56990	49513	20808	15794	13722
60°	43917	38647	18600	15259	13364
65°	33294	28811	16382	14100	11859
70°	22307	20243	12538	12538	9769
75°	11978	11978	8318	8318	7386
80°	2777	5455	4166	5455	6843
85°	0	2766	2766	5533	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 96157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	4.0
10°-20°	82.2	12.3
20°-30°	126.7	18.9
30°-40°	143.8	21.5
40°-50°	130.1	19.4
50°-60°	91.0	13.6
60°-70°	50.0	7.5
70°-80°	16.7	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°	236.0	35.2
0°-40°	379.9	56.7
0°-60°	601.0	89.7
0°-90°	670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	274	274	274	274	274	
5°	366	334	272	227	212	37
15°	524	425	244	158	137	149
25°	593	439	200	114	98	272
35°	538	371	152	86	75	334
45°	395	266	108	68	61	299
55°	190	165	69	53	46	175
65°	82	71	40	35	29	82
75°	18	18	12	12	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°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	313.1	315.9	317.3	314.5	313.1	311.7	309.0	307.6	304.8	302.0	300.6
5°	365.8	365.8	365.8	363.0	358.8	356.1	350.5	346.4	339.4	333.9	328.3
7.5°	412.9	412.9	411.5	407.3	404.5	397.6	390.7	385.2	374.1	365.8	354.7
10°	451.7	451.7	450.3	443.3	439.2	430.9	423.9	414.2	403.2	392.1	379.6
12.5°	489.1	489.1	483.5	478.0	469.7	458.6	448.9	439.2	423.9	411.5	396.2
15°	523.7	523.7	520.9	511.2	500.1	487.7	473.8	460.0	442.0	425.3	408.7
17.5°	554.2	552.8	548.6	537.5	526.5	511.2	494.6	478.0	455.8	436.4	415.6
20°	575.0	575.0	569.4	556.9	544.5	527.9	509.8	490.4	466.9	443.3	418.4
22.5°	588.8	587.4	581.9	569.4	554.2	537.5	516.8	496.0	469.7	443.3	417.0
25°	593.0	591.6	586.0	572.2	556.9	538.9	516.8	494.6	466.9	439.2	410.1
27.5°	590.2	588.8	583.3	568.0	552.8	532.0	509.8	486.3	458.6	429.5	400.4
30°	581.9	577.7	572.2	558.3	541.7	520.9	497.4	471.0	443.3	412.9	383.8
32.5°	561.1	561.1	554.2	540.3	523.7	501.5	478.0	453.0	422.6	393.5	363.0
35°	537.5	536.2	530.6	515.4	500.1	479.4	455.8	429.5	400.4	371.3	342.2
37.5°	508.5	507.1	501.5	487.7	471.0	451.7	426.7	401.8	374.1	345.0	318.7
40°	476.6	473.8	466.9	455.8	442.0	419.8	397.6	372.7	346.4	320.0	293.7
42.5°	440.6	437.8	432.3	423.9	407.3	387.9	367.1	343.6	318.7	292.3	272.9
45°	394.8	394.8	392.1	383.8	371.3	356.1	333.9	313.1	289.6	266.0	245.2
47.5°	338.0	340.8	339.4	335.3	329.7	315.9	300.6	282.6	260.5	239.7	220.3
50°	288.2	289.6	290.9	288.2	284.0	274.3	264.6	253.5	234.1	214.7	196.7
52.5°	231.4	235.5	235.5	236.9	236.9	234.1	231.4	218.9	209.2	189.8	173.2
55°	189.8	189.8	189.8	192.6	194.0	195.3	192.6	189.8	178.7	164.9	149.6
57.5°	155.2	155.2	157.9	156.6	156.6	159.3	159.3	157.9	151.0	138.5	124.7
60°	127.5	127.5	127.5	127.5	128.8	128.8	128.8	128.8	123.3	112.2	101.1
62.5°	102.5	102.5	102.5	103.9	103.9	103.9	105.3	103.9	98.4	90.1	80.4
65°	81.7	80.4	81.7	81.7	83.1	83.1	83.1	81.7	76.2	70.7	63.7
67.5°	61.0	62.3	62.3	62.3	63.7	65.1	63.7	62.3	58.2	52.6	49.9
70°	44.3	45.7	45.7	45.7	47.1	48.5	47.1	45.7	42.9	40.2	37.4
72.5°	29.1	30.5	30.5	31.9	33.3	33.3	31.9	31.9	30.5	27.7	26.3
75°	18.0	18.0	19.4	19.4	20.8	20.8	20.8	19.4	19.4	18.0	18.0
77.5°	8.3	8.3	9.7	9.7	9.7	11.1	11.1	11.1	11.1	11.1	9.7
80°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	5.5	5.5	5.5
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°	274.3	274.3	274.3	274.3	274.3	274.3	274.3	274.3
2.5°	297.9	293.7	288.2	274.3	260.5	249.4	242.5	241.1
5°	321.4	314.5	302.0	271.5	246.6	227.2	216.1	212.0
7.5°	345.0	332.5	314.5	267.4	230.0	206.4	194.0	188.4
10°	364.4	349.1	325.6	261.8	216.1	188.4	173.2	169.0
12.5°	379.6	361.6	332.5	253.5	202.3	171.8	156.6	152.4
15°	389.3	369.9	336.7	243.8	188.4	157.9	142.7	137.2
17.5°	393.5	369.9	335.3	234.1	176.0	145.5	130.2	126.1
20°	393.5	367.1	331.1	223.1	163.5	133.0	119.1	115.0
22.5°	389.3	361.6	321.4	210.6	152.4	123.3	109.4	105.3
25°	381.0	350.5	310.3	199.5	141.3	113.6	101.1	98.4
27.5°	368.5	338.0	296.5	188.4	131.6	105.3	94.2	91.4
30°	353.3	322.8	281.2	174.6	121.9	98.4	88.7	84.5
32.5°	333.9	304.8	264.6	163.5	113.6	91.4	83.1	80.4
35°	313.1	286.8	246.6	152.4	105.3	85.9	77.6	74.8
37.5°	292.3	264.6	231.4	139.9	98.4	80.4	73.4	70.7
40°	270.2	249.4	214.7	128.8	92.8	76.2	69.3	67.9
42.5°	248.0	225.8	191.2	119.1	85.9	70.7	65.1	63.7
45°	221.7	200.9	173.2	108.1	80.4	67.9	62.3	61.0
47.5°	199.5	180.1	155.2	98.4	74.8	63.7	58.2	56.8
50°	178.7	159.3	135.8	87.3	69.3	59.6	55.4	52.6
52.5°	155.2	138.5	117.8	77.6	63.7	55.4	51.3	49.9
55°	134.4	117.8	98.4	69.3	58.2	52.6	47.1	45.7
57.5°	110.8	97.0	83.1	61.0	52.6	47.1	44.3	41.6
60°	90.1	80.4	70.7	54.0	47.1	44.3	40.2	38.8
62.5°	73.4	66.5	59.6	47.1	41.6	38.8	36.0	33.3
65°	58.2	54.0	48.5	40.2	36.0	34.6	31.9	29.1
67.5°	45.7	42.9	38.8	31.9	30.5	29.1	26.3	23.6
70°	34.6	33.3	30.5	24.9	23.6	24.9	22.2	19.4
72.5°	24.9	23.6	22.2	18.0	18.0	18.0	16.6	13.9
75°	16.6	15.2	13.9	12.5	12.5	12.5	12.5	11.1
77.5°	9.7	9.7	8.3	6.9	8.3	8.3	9.7	9.7
80°	4.2	4.2	4.2	4.2	5.5	5.5	6.9	6.9
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)