

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: P1316682

Luminaire Tested: LDSQA3D13R709740DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316682
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: LDSQA3D13R709740DE010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

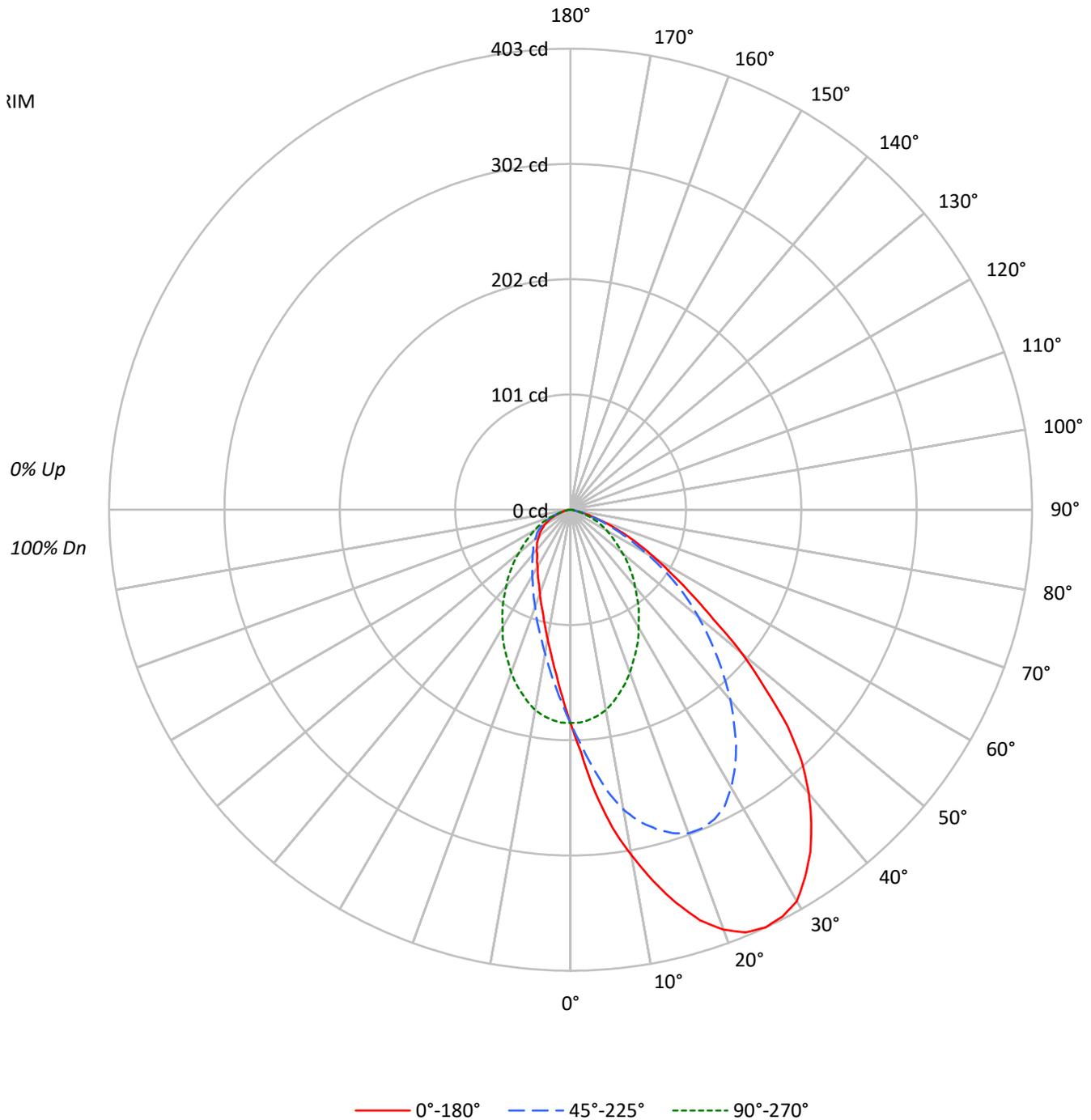
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 455.0 lumens
Efficiency: N/A
Efficacy: 31.2 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): 14.6
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°	32085	32085	32085	32085	32085
5°	42944	39192	31879	26675	24895
10°	53636	46570	31094	22385	20076
15°	63403	51492	29526	19131	16600
20°	71569	55184	27766	16550	14314
25°	76524	56685	25749	14670	12694
30°	78592	55762	23566	13284	11415
35°	76760	53003	21760	12257	10680
40°	72774	48854	19672	11623	10364
45°	65298	43987	17877	11228	10083
50°	52434	39064	15888	10851	9592
55°	38704	33629	14112	10749	9308
60°	29829	26247	12641	10368	9059
65°	22617	19561	11125	9577	8069
70°	15157	13747	8510	8510	6647
75°	8118	8118	5656	5656	4991
80°	1884	3769	2777	3769	4661
85°	0	1778	1778	3754	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 65298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	4.0
10°-20°	55.8	12.3
20°-30°	86.1	18.9
30°-40°	97.7	21.5
40°-50°	88.4	19.4
50°-60°	61.8	13.6
60°-70°	34.0	7.5
70°-80°	11.4	2.5
80°-90°	1.5	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°	160.3	35.2
0°-40°	258.0	56.7
0°-60°	408.2	89.7
0°-90°	455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	186	186	186	186	186	
5°	248	227	184	154	144	25
15°	356	289	166	107	93	101
25°	403	298	136	77	67	185
35°	365	252	104	58	51	227
45°	268	181	73	46	41	203
55°	129	112	47	36	31	119
65°	56	48	27	24	20	55
75°	12	12	8	8	8	14
85°	0	1	1	2	2	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°	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3
2.5°	212.6	214.5	215.5	213.6	212.6	211.7	209.8	208.9	207.0	205.1	204.2
5°	248.4	248.4	248.4	246.5	243.7	241.8	238.0	235.2	230.5	226.7	223.0
7.5°	280.4	280.4	279.4	276.6	274.7	270.0	265.3	261.6	254.0	248.4	240.9
10°	306.7	306.7	305.8	301.1	298.3	292.6	287.9	281.3	273.8	266.3	257.8
12.5°	332.1	332.1	328.4	324.6	319.0	311.4	304.8	298.3	287.9	279.4	269.1
15°	355.6	355.6	353.8	347.2	339.6	331.2	321.8	312.4	300.1	288.8	277.6
17.5°	376.3	375.4	372.6	365.1	357.5	347.2	335.9	324.6	309.5	296.4	282.3
20°	390.5	390.5	386.7	378.2	369.8	358.5	346.2	333.1	317.1	301.1	284.1
22.5°	399.9	398.9	395.2	386.7	376.3	365.1	350.9	336.8	319.0	301.1	283.2
25°	402.7	401.7	398.0	388.6	378.2	366.0	350.9	335.9	317.1	298.3	278.5
27.5°	400.8	399.9	396.1	385.8	375.4	361.3	346.2	330.2	311.4	291.7	271.9
30°	395.2	392.3	388.6	379.2	367.9	353.8	337.8	319.9	301.1	280.4	260.6
32.5°	381.0	381.0	376.3	366.9	355.6	340.6	324.6	307.7	287.0	267.2	246.5
35°	365.1	364.1	360.3	350.0	339.6	325.5	309.5	291.7	271.9	252.1	232.4
37.5°	345.3	344.4	340.6	331.2	319.9	306.7	289.8	272.8	254.0	234.3	216.4
40°	323.7	321.8	317.1	309.5	300.1	285.1	270.0	253.1	235.2	217.3	199.5
42.5°	299.2	297.3	293.5	287.9	276.6	263.4	249.3	233.3	216.4	198.5	185.3
45°	268.1	268.1	266.3	260.6	252.1	241.8	226.7	212.6	196.6	180.6	166.5
47.5°	229.6	231.5	230.5	227.7	223.9	214.5	204.2	191.9	176.9	162.8	149.6
50°	195.7	196.6	197.6	195.7	192.9	186.3	179.7	172.2	159.0	145.8	133.6
52.5°	157.1	159.9	159.9	160.9	160.9	159.0	157.1	148.7	142.1	128.9	117.6
55°	128.9	128.9	128.9	130.8	131.7	132.7	130.8	128.9	121.4	112.0	101.6
57.5°	105.4	105.4	107.3	106.3	106.3	108.2	108.2	107.3	102.6	94.1	84.7
60°	86.6	86.6	86.6	86.6	87.5	87.5	87.5	87.5	83.7	76.2	68.7
62.5°	69.6	69.6	69.6	70.6	70.6	70.6	71.5	70.6	66.8	61.2	54.6
65°	55.5	54.6	55.5	55.5	56.5	56.5	56.5	55.5	51.7	48.0	43.3
67.5°	41.4	42.3	42.3	42.3	43.3	44.2	43.3	42.3	39.5	35.8	33.9
70°	30.1	31.0	31.0	31.0	32.0	32.9	32.0	31.0	29.2	27.3	25.4
72.5°	19.8	20.7	20.7	21.6	22.6	22.6	21.6	21.6	20.7	18.8	17.9
75°	12.2	12.2	13.2	13.2	14.1	14.1	14.1	13.2	13.2	12.2	12.2
77.5°	5.6	5.6	6.6	6.6	6.6	7.5	7.5	7.5	7.5	7.5	6.6
80°	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	3.8	3.8	3.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3
2.5°	202.3	199.5	195.7	186.3	176.9	169.4	164.6	163.7
5°	218.3	213.6	205.1	184.4	167.5	154.3	146.8	144.0
7.5°	234.3	225.8	213.6	181.6	156.2	140.2	131.7	128.0
10°	247.4	237.1	221.1	177.8	146.8	128.0	117.6	114.8
12.5°	257.8	245.6	225.8	172.2	137.4	116.7	106.3	103.5
15°	264.4	251.2	228.6	165.6	128.0	107.3	96.9	93.1
17.5°	267.2	251.2	227.7	159.0	119.5	98.8	88.4	85.6
20°	267.2	249.3	224.9	151.5	111.0	90.3	80.9	78.1
22.5°	264.4	245.6	218.3	143.0	103.5	83.7	74.3	71.5
25°	258.7	238.0	210.8	135.5	96.0	77.2	68.7	66.8
27.5°	250.3	229.6	201.3	128.0	89.4	71.5	64.0	62.1
30°	239.9	219.2	191.0	118.5	82.8	66.8	60.2	57.4
32.5°	226.7	207.0	179.7	111.0	77.2	62.1	56.5	54.6
35°	212.6	194.8	167.5	103.5	71.5	58.3	52.7	50.8
37.5°	198.5	179.7	157.1	95.0	66.8	54.6	49.9	48.0
40°	183.5	169.4	145.8	87.5	63.0	51.7	47.0	46.1
42.5°	168.4	153.4	129.8	80.9	58.3	48.0	44.2	43.3
45°	150.5	136.4	117.6	73.4	54.6	46.1	42.3	41.4
47.5°	135.5	122.3	105.4	66.8	50.8	43.3	39.5	38.6
50°	121.4	108.2	92.2	59.3	47.0	40.5	37.6	35.8
52.5°	105.4	94.1	80.0	52.7	43.3	37.6	34.8	33.9
55°	91.3	80.0	66.8	47.0	39.5	35.8	32.0	31.0
57.5°	75.3	65.9	56.5	41.4	35.8	32.0	30.1	28.2
60°	61.2	54.6	48.0	36.7	32.0	30.1	27.3	26.3
62.5°	49.9	45.2	40.5	32.0	28.2	26.3	24.5	22.6
65°	39.5	36.7	32.9	27.3	24.5	23.5	21.6	19.8
67.5°	31.0	29.2	26.3	21.6	20.7	19.8	17.9	16.0
70°	23.5	22.6	20.7	16.9	16.0	16.9	15.1	13.2
72.5°	16.9	16.0	15.1	12.2	12.2	12.2	11.3	9.4
75°	11.3	10.3	9.4	8.5	8.5	8.5	8.5	7.5
77.5°	6.6	6.6	5.6	4.7	5.6	5.6	6.6	6.6
80°	2.8	2.8	2.8	2.8	3.8	3.8	4.7	4.7
82.5°	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8
85°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)