

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: P1312648

Luminaire Tested: LDSQA3D13R709050DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312648
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: LDSQA3D13R709050DE010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

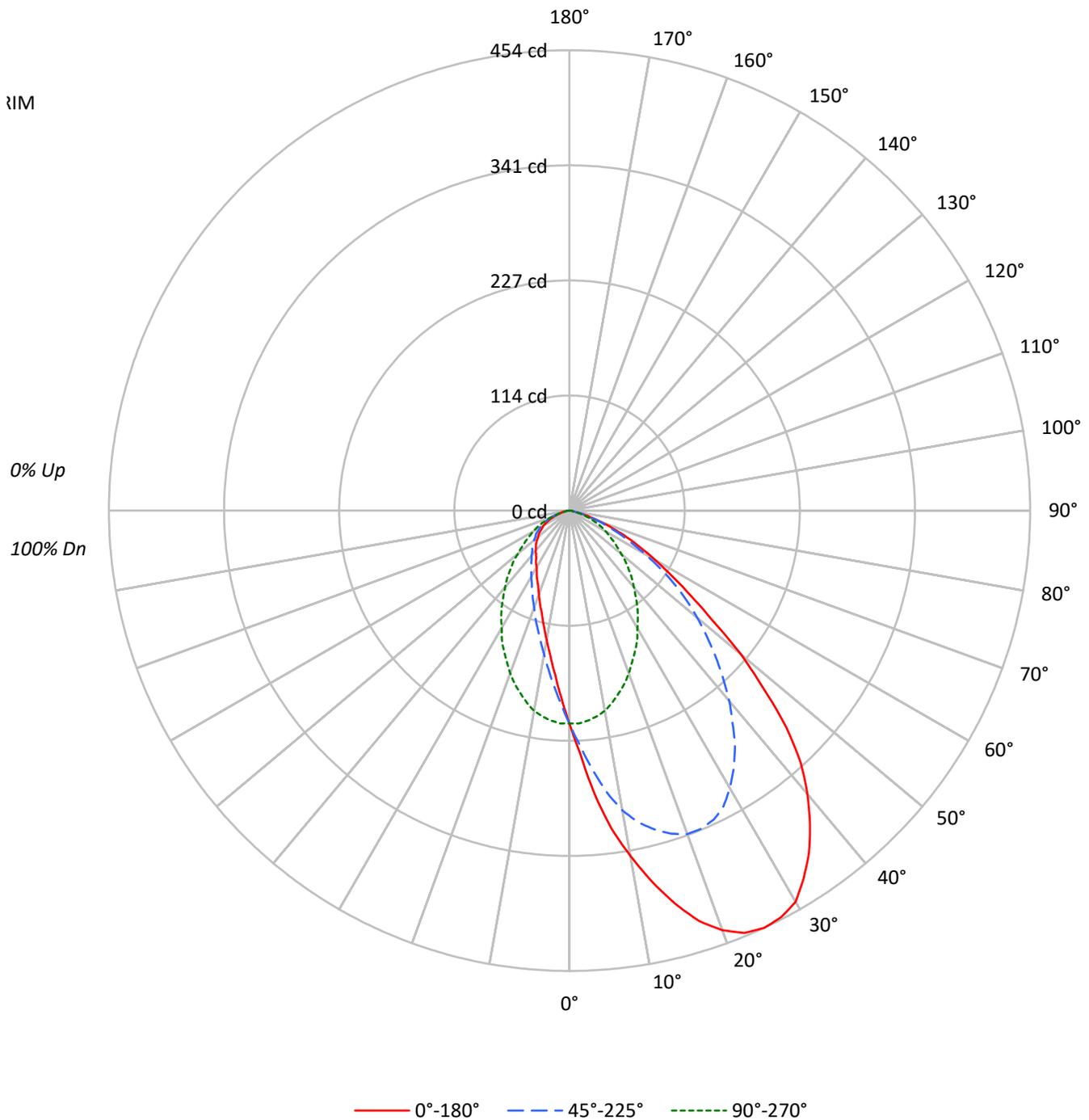
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 513.0 lumens
Efficiency: N/A
Efficacy: 35.1 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	90	88	
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	78	76	
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	68	66	
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	60	58	
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	51	
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	38	36	
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	35	33	
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	36167	36167	36167	36167	36167
5°	48407	44206	35942	30081	28059
10°	60473	52499	35063	25235	22629
15°	71497	58072	33288	21556	18721
20°	80678	62222	31303	18657	16128
25°	86272	63906	29036	16532	14309
30°	88595	62861	26588	14975	12867
35°	86537	59773	24536	13834	12047
40°	82037	55081	22190	13107	11691
45°	73628	49613	20142	12665	11374
50°	59106	44048	17898	12218	10798
55°	43628	37893	15914	12101	10509
60°	33618	29588	14260	11677	10230
65°	25510	22046	12551	10799	9088
70°	17070	15509	9618	9618	7503
75°	9183	9183	6321	6321	5656
80°	2083	4166	3174	4166	5256
85°	0	2174	2174	4150	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 73628 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	4.0
10°-20°	63.0	12.3
20°-30°	97.0	18.9
30°-40°	110.1	21.5
40°-50°	99.7	19.4
50°-60°	69.7	13.6
60°-70°	38.3	7.5
70°-80°	12.8	2.5
80°-90°	1.7	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°	180.7	35.2
0°-40°	290.9	56.7
0°-60°	460.2	89.7
0°-90°	513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	210	210	210	210	210	
5°	280	256	208	174	162	29
15°	401	326	187	121	105	114
25°	454	336	153	87	75	208
35°	412	284	117	66	57	256
45°	302	204	83	52	47	229
55°	145	126	53	40	35	134
65°	63	54	31	26	22	63
75°	14	14	10	10	8	16
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°	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	239.7	241.9	242.9	240.8	239.7	238.7	236.6	235.5	233.4	231.3	230.2
5°	280.0	280.0	280.0	277.9	274.7	272.6	268.4	265.2	259.9	255.7	251.4
7.5°	316.1	316.1	315.1	311.9	309.8	304.4	299.1	294.9	286.4	280.0	271.6
10°	345.8	345.8	344.8	339.5	336.3	329.9	324.6	317.2	308.7	300.2	290.7
12.5°	374.5	374.5	370.2	366.0	359.6	351.1	343.7	336.3	324.6	315.1	303.4
15°	401.0	401.0	398.9	391.4	382.9	373.4	362.8	352.2	338.4	325.7	312.9
17.5°	424.3	423.3	420.1	411.6	403.1	391.4	378.7	366.0	349.0	334.1	318.2
20°	440.2	440.2	436.0	426.4	416.9	404.2	390.4	375.5	357.5	339.5	320.4
22.5°	450.8	449.8	445.5	436.0	424.3	411.6	395.7	379.8	359.6	339.5	319.3
25°	454.0	453.0	448.7	438.1	426.4	412.6	395.7	378.7	357.5	336.3	314.0
27.5°	451.9	450.8	446.6	434.9	423.3	407.3	390.4	372.3	351.1	328.8	306.6
30°	445.5	442.3	438.1	427.5	414.8	398.9	380.8	360.7	339.5	316.1	293.8
32.5°	429.6	429.6	424.3	413.7	401.0	384.0	366.0	346.9	323.5	301.3	277.9
35°	411.6	410.5	406.3	394.6	382.9	367.0	349.0	328.8	306.6	284.3	262.0
37.5°	389.3	388.2	384.0	373.4	360.7	345.8	326.7	307.6	286.4	264.1	244.0
40°	364.9	362.8	357.5	349.0	338.4	321.4	304.4	285.4	265.2	245.0	224.9
42.5°	337.3	335.2	331.0	324.6	311.9	297.0	281.1	263.1	244.0	223.8	209.0
45°	302.3	302.3	300.2	293.8	284.3	272.6	255.7	239.7	221.7	203.7	187.8
47.5°	258.8	261.0	259.9	256.7	252.5	241.9	230.2	216.4	199.4	183.5	168.7
50°	220.6	221.7	222.8	220.6	217.5	210.0	202.6	194.1	179.3	164.4	150.6
52.5°	177.2	180.3	180.3	181.4	181.4	179.3	177.2	167.6	160.2	145.3	132.6
55°	145.3	145.3	145.3	147.4	148.5	149.6	147.4	145.3	136.8	126.2	114.6
57.5°	118.8	118.8	120.9	119.9	119.9	122.0	122.0	120.9	115.6	106.1	95.5
60°	97.6	97.6	97.6	97.6	98.7	98.7	98.7	98.7	94.4	85.9	77.4
62.5°	78.5	78.5	78.5	79.6	79.6	79.6	80.6	79.6	75.3	69.0	61.5
65°	62.6	61.5	62.6	62.6	63.6	63.6	63.6	62.6	58.3	54.1	48.8
67.5°	46.7	47.7	47.7	47.7	48.8	49.9	48.8	47.7	44.6	40.3	38.2
70°	33.9	35.0	35.0	35.0	36.1	37.1	36.1	35.0	32.9	30.8	28.6
72.5°	22.3	23.3	23.3	24.4	25.5	25.5	24.4	24.4	23.3	21.2	20.2
75°	13.8	13.8	14.9	14.9	15.9	15.9	15.9	14.9	14.9	13.8	13.8
77.5°	6.4	6.4	7.4	7.4	7.4	8.5	8.5	8.5	8.5	8.5	7.4
80°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	4.2	4.2	4.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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°	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	228.1	224.9	220.6	210.0	199.4	190.9	185.6	184.6
5°	246.1	240.8	231.3	207.9	188.8	174.0	165.5	162.3
7.5°	264.1	254.6	240.8	204.7	176.1	158.1	148.5	144.3
10°	279.0	267.3	249.3	200.5	165.5	144.3	132.6	129.4
12.5°	290.7	276.9	254.6	194.1	154.9	131.5	119.9	116.7
15°	298.1	283.2	257.8	186.7	144.3	120.9	109.3	105.0
17.5°	301.3	283.2	256.7	179.3	134.7	111.4	99.7	96.5
20°	301.3	281.1	253.5	170.8	125.2	101.8	91.2	88.0
22.5°	298.1	276.9	246.1	161.2	116.7	94.4	83.8	80.6
25°	291.7	268.4	237.6	152.8	108.2	87.0	77.4	75.3
27.5°	282.2	258.8	227.0	144.3	100.8	80.6	72.1	70.0
30°	270.5	247.2	215.3	133.7	93.3	75.3	67.9	64.7
32.5°	255.7	233.4	202.6	125.2	87.0	70.0	63.6	61.5
35°	239.7	219.6	188.8	116.7	80.6	65.8	59.4	57.3
37.5°	223.8	202.6	177.2	107.1	75.3	61.5	56.2	54.1
40°	206.9	190.9	164.4	98.7	71.1	58.3	53.0	52.0
42.5°	189.9	172.9	146.4	91.2	65.8	54.1	49.9	48.8
45°	169.7	153.8	132.6	82.7	61.5	52.0	47.7	46.7
47.5°	152.8	137.9	118.8	75.3	57.3	48.8	44.6	43.5
50°	136.8	122.0	104.0	66.8	53.0	45.6	42.4	40.3
52.5°	118.8	106.1	90.2	59.4	48.8	42.4	39.2	38.2
55°	102.9	90.2	75.3	53.0	44.6	40.3	36.1	35.0
57.5°	84.9	74.3	63.6	46.7	40.3	36.1	33.9	31.8
60°	69.0	61.5	54.1	41.4	36.1	33.9	30.8	29.7
62.5°	56.2	50.9	45.6	36.1	31.8	29.7	27.6	25.5
65°	44.6	41.4	37.1	30.8	27.6	26.5	24.4	22.3
67.5°	35.0	32.9	29.7	24.4	23.3	22.3	20.2	18.0
70°	26.5	25.5	23.3	19.1	18.0	19.1	17.0	14.9
72.5°	19.1	18.0	17.0	13.8	13.8	13.8	12.7	10.6
75°	12.7	11.7	10.6	9.5	9.5	9.5	9.5	8.5
77.5°	7.4	7.4	6.4	5.3	6.4	6.4	7.4	7.4
80°	3.2	3.2	3.2	3.2	4.2	4.2	5.3	5.3
82.5°	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2
85°	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)