

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: P1313912

Luminaire Tested: LDSQA3D17R709727DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313912
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: LDSQA3D17R709727DE010 3LSQCLSWWR 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , 3LSQCLSWWR 1MW TF
Light Source: -
Ballast/Driver: -

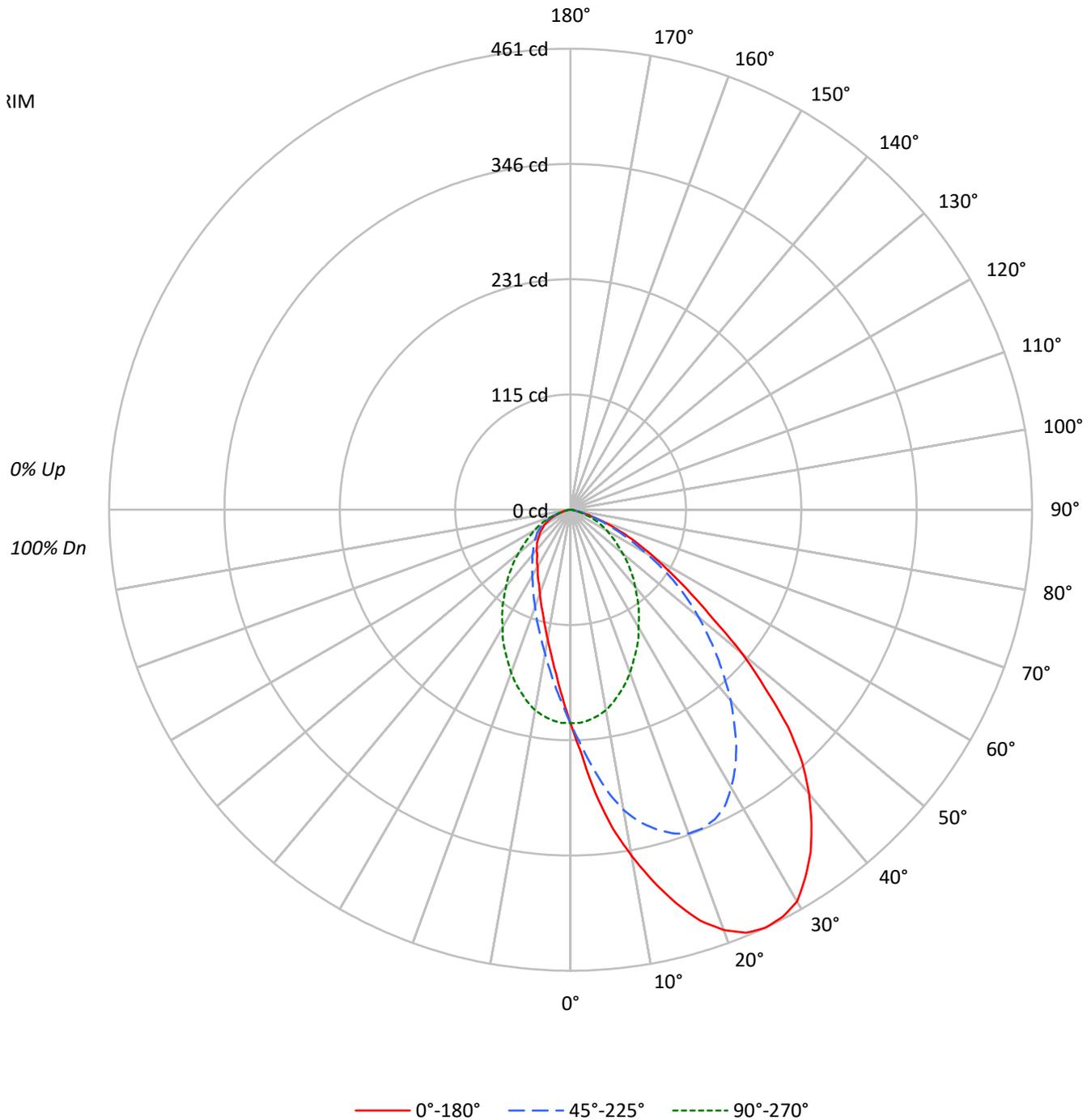
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 521.0 lumens
Efficiency: N/A
Efficacy: 24.6 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 (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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	78	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	68	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	60	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	38	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	36735	36735	36735	36735	36735
5°	49167	44880	36512	30548	28491
10°	61418	53321	35605	25620	22979
15°	72603	58963	33805	21895	19024
20°	81942	63175	31798	18951	16385
25°	87621	64894	29473	16779	14537
30°	89987	63836	26986	15213	13065
35°	87882	60698	24914	14044	12236
40°	83319	55958	22527	13332	11871
45°	74773	50368	20459	12860	11545
50°	60043	44744	18193	12405	10958
55°	44319	38493	16184	12281	10689
60°	34135	30070	14467	11883	10402
65°	25918	22372	12714	10962	9210
70°	17372	15711	9769	9769	7604
75°	9316	9316	6455	6455	5723
80°	2182	4265	3174	4265	5356
85°	0	2174	2174	4347	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 74773 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	4.0
10°-20°	63.9	12.3
20°-30°	98.6	18.9
30°-40°	111.8	21.5
40°-50°	101.2	19.4
50°-60°	70.8	13.6
60°-70°	38.9	7.5
70°-80°	13.0	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°	183.5	35.2
0°-40°	295.4	56.7
0°-60°	467.4	89.7
0°-90°	521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	213	213	213	213	213	
5°	284	260	211	177	165	29
15°	407	331	190	123	107	116
25°	461	342	155	88	76	212
35°	418	289	118	67	58	260
45°	307	207	84	53	47	233
55°	148	128	54	41	36	136
65°	64	55	31	27	23	63
75°	14	14	10	10	9	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°	213.3	213.3	213.3	213.3	213.3	213.3	213.3	213.3	213.3	213.3	213.3
2.5°	243.5	245.6	246.7	244.6	243.5	242.4	240.2	239.2	237.0	234.9	233.8
5°	284.4	284.4	284.4	282.3	279.0	276.9	272.6	269.3	263.9	259.6	255.3
7.5°	321.0	321.0	320.0	316.7	314.6	309.2	303.8	299.5	290.9	284.4	275.8
10°	351.2	351.2	350.1	344.7	341.5	335.1	329.7	322.1	313.5	304.9	295.2
12.5°	380.3	380.3	376.0	371.7	365.2	356.6	349.1	341.5	329.7	320.0	308.1
15°	407.2	407.2	405.1	397.5	388.9	379.2	368.4	357.7	343.7	330.7	317.8
17.5°	430.9	429.9	426.6	418.0	409.4	397.5	384.6	371.7	354.4	339.4	323.2
20°	447.1	447.1	442.8	433.1	423.4	410.5	396.5	381.4	363.1	344.7	325.4
22.5°	457.9	456.8	452.5	442.8	430.9	418.0	401.8	385.7	365.2	344.7	324.3
25°	461.1	460.0	455.7	444.9	433.1	419.1	401.8	384.6	363.1	341.5	318.9
27.5°	458.9	457.9	453.6	441.7	429.9	413.7	396.5	378.1	356.6	334.0	311.3
30°	452.5	449.2	444.9	434.2	421.2	405.1	386.8	366.3	344.7	321.0	298.4
32.5°	436.3	436.3	430.9	420.2	407.2	390.0	371.7	352.3	328.6	306.0	282.3
35°	418.0	416.9	412.6	400.8	388.9	372.8	354.4	334.0	311.3	288.7	266.1
37.5°	395.4	394.3	390.0	379.2	366.3	351.2	331.8	312.4	290.9	268.3	247.8
40°	370.6	368.4	363.1	354.4	343.7	326.4	309.2	289.8	269.3	248.9	228.4
42.5°	342.6	340.4	336.1	329.7	316.7	301.7	285.5	267.2	247.8	227.3	212.2
45°	307.0	307.0	304.9	298.4	288.7	276.9	259.6	243.5	225.2	206.8	190.7
47.5°	262.9	265.0	263.9	260.7	256.4	245.6	233.8	219.8	202.5	186.4	171.3
50°	224.1	225.2	226.2	224.1	220.9	213.3	205.8	197.2	182.1	167.0	153.0
52.5°	179.9	183.1	183.1	184.2	184.2	182.1	179.9	170.2	162.7	147.6	134.7
55°	147.6	147.6	147.6	149.7	150.8	151.9	149.7	147.6	139.0	128.2	116.4
57.5°	120.7	120.7	122.8	121.7	121.7	123.9	123.9	122.8	117.4	107.7	97.0
60°	99.1	99.1	99.1	99.1	100.2	100.2	100.2	100.2	95.9	87.3	78.6
62.5°	79.7	79.7	79.7	80.8	80.8	80.8	81.9	80.8	76.5	70.0	62.5
65°	63.6	62.5	63.6	63.6	64.6	64.6	64.6	63.6	59.3	54.9	49.6
67.5°	47.4	48.5	48.5	48.5	49.6	50.6	49.6	48.5	45.2	40.9	38.8
70°	34.5	35.6	35.6	35.6	36.6	37.7	36.6	35.6	33.4	31.2	29.1
72.5°	22.6	23.7	23.7	24.8	25.9	25.9	24.8	24.8	23.7	21.5	20.5
75°	14.0	14.0	15.1	15.1	16.2	16.2	16.2	15.1	15.1	14.0	14.0
77.5°	6.5	6.5	7.5	7.5	7.5	8.6	8.6	8.6	8.6	8.6	7.5
80°	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3	4.3	4.3
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
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°	213.3	213.3	213.3	213.3	213.3	213.3	213.3	213.3
2.5°	231.6	228.4	224.1	213.3	202.5	193.9	188.5	187.5
5°	249.9	244.6	234.9	211.2	191.8	176.7	168.1	164.8
7.5°	268.3	258.6	244.6	207.9	178.8	160.5	150.8	146.5
10°	283.3	271.5	253.2	203.6	168.1	146.5	134.7	131.4
12.5°	295.2	281.2	258.6	197.2	157.3	133.6	121.7	118.5
15°	302.7	287.6	261.8	189.6	146.5	122.8	111.0	106.7
17.5°	306.0	287.6	260.7	182.1	136.8	113.1	101.3	98.0
20°	306.0	285.5	257.5	173.5	127.1	103.4	92.7	89.4
22.5°	302.7	281.2	249.9	163.8	118.5	95.9	85.1	81.9
25°	296.3	272.6	241.3	155.1	109.9	88.3	78.6	76.5
27.5°	286.6	262.9	230.5	146.5	102.3	81.9	73.3	71.1
30°	274.7	251.0	218.7	135.7	94.8	76.5	68.9	65.7
32.5°	259.6	237.0	205.8	127.1	88.3	71.1	64.6	62.5
35°	243.5	223.0	191.8	118.5	81.9	66.8	60.3	58.2
37.5°	227.3	205.8	179.9	108.8	76.5	62.5	57.1	54.9
40°	210.1	193.9	167.0	100.2	72.2	59.3	53.9	52.8
42.5°	192.8	175.6	148.7	92.7	66.8	54.9	50.6	49.6
45°	172.4	156.2	134.7	84.0	62.5	52.8	48.5	47.4
47.5°	155.1	140.1	120.7	76.5	58.2	49.6	45.2	44.2
50°	139.0	123.9	105.6	67.9	53.9	46.3	43.1	40.9
52.5°	120.7	107.7	91.6	60.3	49.6	43.1	39.9	38.8
55°	104.5	91.6	76.5	53.9	45.2	40.9	36.6	35.6
57.5°	86.2	75.4	64.6	47.4	40.9	36.6	34.5	32.3
60°	70.0	62.5	54.9	42.0	36.6	34.5	31.2	30.2
62.5°	57.1	51.7	46.3	36.6	32.3	30.2	28.0	25.9
65°	45.2	42.0	37.7	31.2	28.0	26.9	24.8	22.6
67.5°	35.6	33.4	30.2	24.8	23.7	22.6	20.5	18.3
70°	26.9	25.9	23.7	19.4	18.3	19.4	17.2	15.1
72.5°	19.4	18.3	17.2	14.0	14.0	14.0	12.9	10.8
75°	12.9	11.9	10.8	9.7	9.7	9.7	9.7	8.6
77.5°	7.5	7.5	6.5	5.4	6.5	6.5	7.5	7.5
80°	3.2	3.2	3.2	3.2	4.3	4.3	5.4	5.4
82.5°	2.2	2.2	2.2	2.2	3.2	3.2	3.2	3.2
85°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
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)