

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: P1314494

Luminaire Tested: LDSQA3D09R359730DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R359730DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

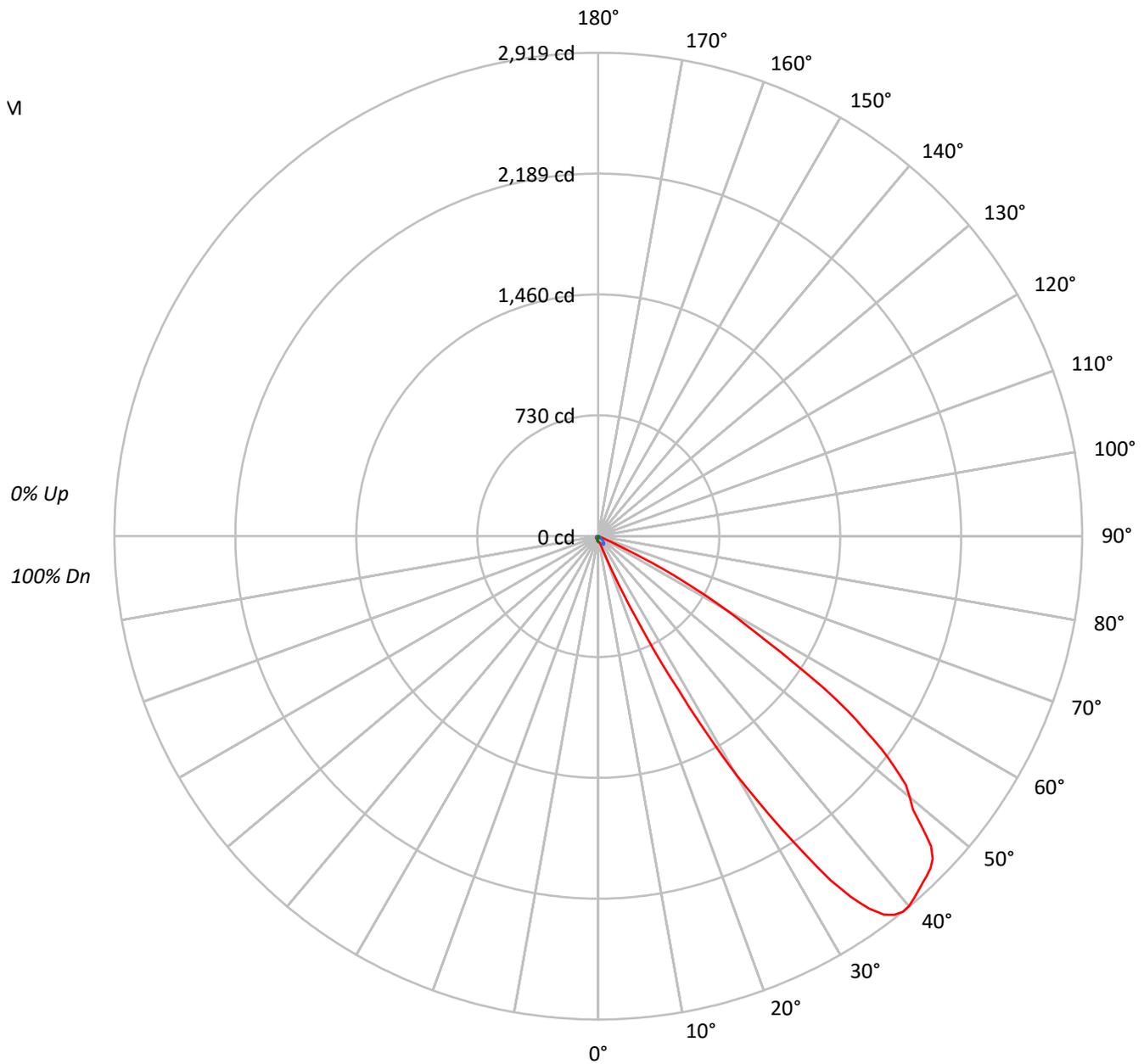
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 727.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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



— 0°-180° - - - 45°-225° ····· 90°-270°



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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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	73	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	61	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	50	
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	42	
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	35	
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	29	
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	24	
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	20	
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	17	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5769	5769	5769	5769	5769
5°	6241	6120	5670	5100	4996
10°	6540	5963	5054	4354	4354
15°	9361	5848	4101	3744	3869
20°	23459	6250	3244	3244	3611
25°	108866	7981	2489	3002	3363
30°	330972	10838	1949	2744	3401
35°	559357	12552	1661	2628	3322
40°	655690	12388	1326	2653	3552
45°	690516	8793	1120	2874	3848
50°	657261	5278	1045	3001	4233
55°	550769	2162	1171	3363	4924
60°	308347	448	1343	3858	5442
65°	53221	285	1345	4279	6153
70°	1007	352	1662	4633	6949
75°	865	466	2196	5257	7852
80°	694	694	2579	5852	9124
85°	0	1383	5138	6521	10473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 46°
 Luminance: 695403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.4
10°-20°	8.6	1.2
20°-30°	44.6	6.1
30°-40°	192.6	26.5
40°-50°	274.8	37.8
50°-60°	170.2	23.4
60°-70°	25.9	3.6
70°-80°	4.9	0.7
80°-90°	2.4	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°	56.2	7.7
0°-40°	248.8	34.2
0°-60°	693.8	95.4
0°-90°	727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	727.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	36	35	33	30	29	3
15°	52	33	23	21	22	19
25°	573	42	13	16	18	343
35°	2660	60	8	12	16	1597
45°	2835	36	5	12	16	2142
55°	1834	7	4	11	16	1562
65°	131	1	3	10	15	267
75°	1	1	3	8	12	1
85°	0	1	3	3	5	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
2.5°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	33.5	32.8
5°	36.1	36.1	35.4	35.4	35.4	35.4	35.4	35.4	34.1	32.8	30.8
7.5°	36.8	36.8	36.1	36.1	36.1	36.1	35.4	34.8	33.5	30.8	28.9
10°	37.4	37.4	37.4	37.4	36.8	36.1	35.4	34.1	32.2	28.9	26.9
12.5°	42.0	42.0	41.3	40.0	38.7	37.4	36.1	33.5	29.5	26.3	24.3
15°	52.5	51.8	50.5	48.6	45.9	42.7	40.0	32.8	26.9	23.0	21.7
17.5°	73.5	72.2	70.2	63.7	57.8	51.8	46.6	32.8	24.3	20.3	19.0
20°	128.0	128.6	114.8	99.1	86.0	71.5	58.4	34.1	21.7	17.7	17.1
22.5°	267.1	256.6	223.8	185.7	141.8	109.6	82.7	37.4	19.0	15.1	15.1
25°	572.9	532.9	453.5	342.6	241.5	171.3	120.1	42.0	17.1	13.1	13.8
27.5°	1046.1	1010.0	850.5	640.5	425.3	258.6	162.8	47.9	15.1	11.2	12.5
30°	1664.3	1564.6	1356.5	1050.0	710.7	395.7	218.5	54.5	12.5	9.8	11.8
31°	1857.3	1811.3	1558.0	1214.8	832.8	469.9	242.2	56.4	11.8	9.8	11.2
32°	2086.3	2004.9	1777.8	1395.2	956.8	536.2	270.4	58.4	11.2	8.5	11.2
33°	2291.0	2212.3	1936.0	1554.1	1082.2	611.6	300.6	59.1	9.8	8.5	10.5
34°	2506.3	2398.7	2125.0	1720.1	1210.8	693.0	328.1	59.7	9.2	7.9	10.5
35°	2660.5	2552.9	2287.8	1851.3	1321.7	765.2	359.6	59.7	8.5	7.9	9.8
36°	2780.0	2685.5	2428.2	1986.5	1432.0	830.2	384.6	59.7	7.2	7.2	9.8
37°	2862.0	2772.1	2522.7	2102.7	1516.0	887.9	406.9	59.7	6.6	7.2	9.8
38°	2902.0	2827.2	2613.9	2187.4	1597.4	933.2	424.6	58.4	5.9	6.6	9.2
39°	2919.1	2858.1	2669.7	2258.9	1658.4	972.6	437.7	57.1	5.3	6.6	9.2
40°	2916.5	2863.3	2701.2	2308.1	1707.6	999.5	445.0	55.1	4.6	5.9	9.2
41°	2901.4	2855.4	2717.6	2350.1	1737.2	1017.9	446.9	53.2	3.9	5.9	8.5
42°	2884.3	2842.3	2722.9	2372.4	1756.2	1023.8	441.7	50.5	3.9	5.3	8.5
43°	2866.6	2827.9	2722.9	2379.6	1760.8	1019.8	433.1	45.9	3.3	5.3	8.5
44°	2852.2	2815.4	2714.3	2377.7	1750.9	1004.8	417.4	40.7	2.6	5.3	8.5
45°	2835.1	2799.0	2703.2	2365.2	1731.9	979.2	397.7	36.1	2.0	4.6	8.5
46°	2804.9	2776.7	2683.5	2339.6	1701.7	943.7	372.8	32.8	1.3	4.6	7.9
47°	2746.5	2722.2	2645.4	2301.5	1661.7	901.7	347.2	29.5	1.3	4.6	7.9
48°	2629.0	2628.4	2569.3	2230.7	1598.0	849.2	320.3	26.3	1.3	4.6	7.9
49°	2515.5	2503.7	2430.2	2106.0	1506.8	786.2	292.0	23.6	0.7	4.6	7.9
50°	2453.1	2427.6	2306.8	1959.0	1390.0	698.9	261.9	19.7	0.7	3.9	7.9
51°	2388.2	2351.4	2209.0	1826.4	1250.9	614.9	229.0	15.8	0.7	3.9	7.2
52°	2270.7	2235.9	2076.4	1699.7	1115.7	529.0	197.5	13.1	0.7	3.9	7.9
53°	2144.0	2094.2	1920.9	1560.6	996.9	452.8	165.4	11.2	0.7	3.9	7.2
54°	1984.6	1962.3	1763.4	1390.0	857.7	379.3	135.8	9.2	0.7	3.9	7.2
55°	1834.3	1801.5	1594.7	1215.4	731.7	311.1	113.5	7.2	0.7	3.9	7.2
56°	1642.7	1593.4	1399.8	1055.3	603.8	250.7	95.8	5.9	0.7	3.9	7.2
57°	1414.3	1361.8	1208.9	877.4	473.8	191.0	80.1	4.6	0.7	3.9	7.2
58°	1196.4	1151.1	987.0	677.3	357.0	132.6	66.3	3.3	0.7	3.3	7.2
59°	1033.6	983.8	821.0	521.1	248.1	97.8	49.9	2.6	0.7	3.9	7.2
60°	895.2	830.8	660.9	403.6	177.2	70.2	36.8	1.3	1.3	3.9	7.2
62.5°	515.8	455.5	315.7	164.1	72.8	36.1	17.7	0.7	1.3	3.9	7.2
65°	130.6	116.2	75.5	35.4	20.3	12.5	6.6	0.7	1.3	3.3	6.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	4.6	4.6	4.6	3.9	3.3	2.6	1.3	0.7	1.3	3.3	6.6
70°	2.0	2.0	2.0	1.3	1.3	0.7	0.7	0.7	1.3	3.3	5.9
72.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	3.3	5.3
75°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	2.0	3.3	5.3
77.5°	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.6	4.6
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.6	3.9
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0	2.6	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	2.0	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.6	2.0
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):

	135°	157.5°	180°
0°	33.5	33.5	33.5
2.5°	31.5	31.5	31.5
5°	29.5	29.5	28.9
7.5°	27.6	26.9	26.9
10°	24.9	24.9	24.9
12.5°	23.0	23.0	23.0
15°	21.0	21.7	21.7
17.5°	19.0	20.3	20.3
20°	17.7	19.0	19.7
22.5°	16.4	17.7	18.4
25°	15.8	17.1	17.7
27.5°	14.4	16.4	17.7
30°	13.8	15.8	17.1
31°	13.8	15.8	16.4
32°	13.1	15.8	16.4
33°	13.1	15.8	16.4
34°	13.1	15.1	16.4
35°	12.5	15.1	15.8
36°	12.5	15.1	15.8
37°	12.5	15.1	16.4
38°	12.5	15.1	15.8
39°	11.8	15.1	15.8
40°	11.8	15.1	15.8
41°	11.8	15.1	15.8
42°	11.8	15.1	15.8
43°	11.8	15.1	15.8
44°	11.8	14.4	15.8
45°	11.8	14.4	15.8
46°	11.8	15.1	15.8
47°	11.8	15.1	16.4
48°	11.8	14.4	15.8
49°	11.2	14.4	15.8
50°	11.2	14.4	15.8
51°	11.2	15.1	16.4
52°	11.2	15.1	16.4
53°	11.2	15.1	16.4
54°	11.2	15.1	15.8
55°	11.2	15.1	16.4
56°	11.2	15.1	15.8
57°	11.2	15.1	15.8
58°	11.2	14.4	15.8
59°	11.2	14.4	15.8
60°	11.2	14.4	15.8
62.5°	10.5	14.4	15.8
65°	10.5	13.8	15.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	9.8	13.8	14.4
70°	9.2	13.1	13.8
72.5°	8.5	12.5	13.1
75°	7.9	11.2	11.8
77.5°	6.6	9.8	11.2
80°	5.9	8.5	9.2
82.5°	4.6	7.2	7.9
85°	3.3	5.3	5.3
87.5°	1.3	2.6	2.6
90°	0.0	0.0	0.0

(END OF REPORT)