

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: P1312405

Luminaire Tested: LDSQA3D09R359050DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312405
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: LDSQA3D09R359050DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

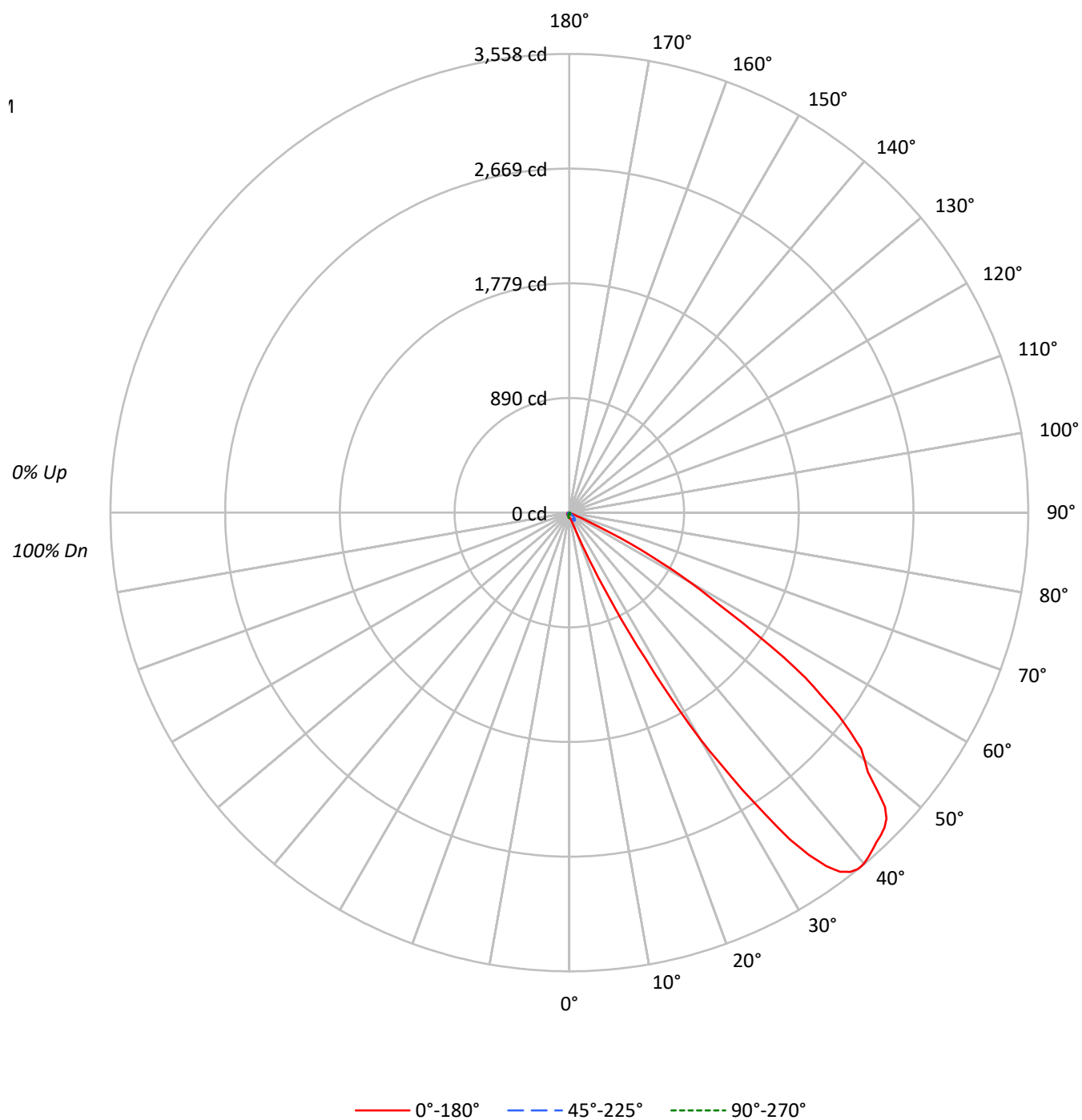
Lumens per Lamp: N/A
Luminaire Lumens: 886.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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



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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	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7027	7027	7027	7027	7027
5°	7607	7468	6915	6224	6085
10°	7975	7275	6156	5316	5316
15°	11411	7132	4992	4564	4707
20°	28591	7624	3959	3959	4399
25°	132677	9729	3040	3649	4105
30°	403359	13205	2386	3341	4136
35°	681698	15306	2018	3196	4037
40°	799080	15108	1619	3237	4317
45°	841547	10717	1364	3507	4676
50°	801033	6430	1286	3644	5144
55°	671233	2642	1441	4084	6005
60°	375755	551	1653	4684	6613
65°	64876	326	1630	5216	7498
70°	1209	403	2014	5640	8460
75°	1065	532	2662	6388	9582
80°	793	793	3174	7141	11108
85°	0	1581	6323	7904	12647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 847504 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.4
10°-20°	10.4	1.2
20°-30°	54.4	6.1
30°-40°	234.8	26.5
40°-50°	334.9	37.8
50°-60°	207.4	23.4
60°-70°	31.6	3.6
70°-80°	5.9	0.7
80°-90°	3.0	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°	68.5	7.7
0°-40°	303.3	34.2
0°-60°	845.6	95.4
0°-90°	886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	44	43	40	36	35	4
15°	64	40	28	26	26	23
25°	698	51	16	19	22	418
35°	3242	73	10	15	19	1947
45°	3455	44	6	14	19	2610
55°	2236	9	5	14	20	1904
65°	159	1	4	13	18	325
75°	2	1	4	10	14	2
85°	0	1	3	4	6	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°	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2.5°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	40.8	40.0
5°	44.0	44.0	43.2	43.2	43.2	43.2	43.2	43.2	41.6	40.0	37.6
7.5°	44.8	44.8	44.0	44.0	44.0	44.0	43.2	42.4	40.8	37.6	35.2
10°	45.6	45.6	45.6	45.6	44.8	44.0	43.2	41.6	39.2	35.2	32.8
12.5°	51.2	51.2	50.4	48.8	47.2	45.6	44.0	40.8	36.0	32.0	29.6
15°	64.0	63.2	61.6	59.2	56.0	52.0	48.8	40.0	32.8	28.0	26.4
17.5°	89.6	88.0	85.6	77.6	70.4	63.2	56.8	40.0	29.6	24.8	23.2
20°	156.0	156.8	140.0	120.8	104.8	87.2	71.2	41.6	26.4	21.6	20.8
22.5°	325.5	312.7	272.7	226.3	172.8	133.6	100.8	45.6	23.2	18.4	18.4
25°	698.2	649.4	552.7	417.5	294.3	208.7	146.4	51.2	20.8	16.0	16.8
27.5°	1274.9	1230.9	1036.5	780.6	518.3	315.1	198.4	58.4	18.4	13.6	15.2
30°	2028.3	1906.7	1653.2	1279.7	866.2	482.3	266.3	66.4	15.2	12.0	14.4
31°	2263.4	2207.5	1898.7	1480.4	1015.0	572.7	295.1	68.8	14.4	12.0	13.6
32°	2542.6	2443.4	2166.7	1700.4	1166.1	653.4	329.5	71.2	13.6	10.4	13.6
33°	2792.1	2696.1	2359.4	1893.9	1318.9	745.4	366.3	72.0	12.0	10.4	12.8
34°	3054.5	2923.3	2589.8	2096.3	1475.6	844.6	399.9	72.8	11.2	9.6	12.8
35°	3242.4	3111.2	2788.1	2256.2	1610.8	932.6	438.3	72.8	10.4	9.6	12.0
36°	3388.0	3272.8	2959.3	2421.0	1745.2	1011.8	468.7	72.8	8.8	8.8	12.0
37°	3487.9	3378.4	3074.4	2562.6	1847.5	1082.1	495.9	72.8	8.0	8.8	12.0
38°	3536.7	3445.6	3185.6	2665.7	1946.7	1137.3	517.5	71.2	7.2	8.0	11.2
39°	3557.5	3483.1	3253.6	2752.9	2021.1	1185.3	533.5	69.6	6.4	8.0	11.2
40°	3554.3	3489.5	3292.0	2812.9	2081.1	1218.1	542.3	67.2	5.6	7.2	11.2
41°	3535.9	3480.0	3312.0	2864.1	2117.1	1240.5	544.7	64.8	4.8	7.2	10.4
42°	3515.1	3464.0	3318.4	2891.3	2140.3	1247.7	538.3	61.6	4.8	6.4	10.4
43°	3493.5	3446.4	3318.4	2900.1	2145.9	1242.9	527.9	56.0	4.0	6.4	10.4
44°	3476.0	3431.2	3308.0	2897.7	2133.9	1224.5	508.7	49.6	3.2	6.4	10.4
45°	3455.2	3411.2	3294.4	2882.5	2110.7	1193.3	484.7	44.0	2.4	5.6	10.4
46°	3418.4	3384.0	3270.4	2851.3	2073.9	1150.1	454.3	40.0	1.6	5.6	9.6
47°	3347.2	3317.6	3224.0	2804.9	2025.1	1098.9	423.1	36.0	1.6	5.6	9.6
48°	3204.0	3203.2	3131.2	2718.5	1947.5	1034.9	390.3	32.0	1.6	5.6	9.6
49°	3065.7	3051.3	2961.7	2566.6	1836.4	958.2	355.9	28.8	0.8	5.6	9.6
50°	2989.7	2958.5	2811.3	2387.4	1694.0	851.8	319.1	24.0	0.8	4.8	9.6
51°	2910.5	2865.7	2692.1	2225.9	1524.4	749.4	279.1	19.2	0.8	4.8	8.8
52°	2767.3	2724.9	2530.6	2071.5	1359.7	644.6	240.7	16.0	0.8	4.8	9.6
53°	2613.0	2552.2	2341.0	1901.9	1214.9	551.9	201.6	13.6	0.8	4.8	8.8
54°	2418.6	2391.4	2149.1	1694.0	1045.3	462.3	165.6	11.2	0.8	4.8	8.8
55°	2235.5	2195.5	1943.5	1481.2	891.8	379.1	138.4	8.8	0.8	4.8	8.8
56°	2001.9	1941.9	1706.0	1286.1	735.8	305.5	116.8	7.2	0.8	4.8	8.8
57°	1723.6	1659.6	1473.2	1069.3	577.5	232.7	97.6	5.6	0.8	4.8	8.8
58°	1458.0	1402.9	1202.9	825.4	435.1	161.6	80.8	4.0	0.8	4.0	8.8
59°	1259.7	1198.9	1000.6	635.0	302.3	119.2	60.8	3.2	0.8	4.8	8.8
60°	1090.9	1012.6	805.4	491.9	215.9	85.6	44.8	1.6	1.6	4.8	8.8
62.5°	628.6	555.1	384.7	200.0	88.8	44.0	21.6	0.8	1.6	4.8	8.8
65°	159.2	141.6	92.0	43.2	24.8	15.2	8.0	0.8	1.6	4.0	8.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.6	5.6	5.6	4.8	4.0	3.2	1.6	0.8	1.6	4.0	8.0
70°	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.8	1.6	4.0	7.2
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	4.0	6.4
75°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	4.0	6.4
77.5°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.2	5.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.2	4.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.2	4.0
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.4	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.2	2.4
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°	40.8	40.8	40.8
2.5°	38.4	38.4	38.4
5°	36.0	36.0	35.2
7.5°	33.6	32.8	32.8
10°	30.4	30.4	30.4
12.5°	28.0	28.0	28.0
15°	25.6	26.4	26.4
17.5°	23.2	24.8	24.8
20°	21.6	23.2	24.0
22.5°	20.0	21.6	22.4
25°	19.2	20.8	21.6
27.5°	17.6	20.0	21.6
30°	16.8	19.2	20.8
31°	16.8	19.2	20.0
32°	16.0	19.2	20.0
33°	16.0	19.2	20.0
34°	16.0	18.4	20.0
35°	15.2	18.4	19.2
36°	15.2	18.4	19.2
37°	15.2	18.4	20.0
38°	15.2	18.4	19.2
39°	14.4	18.4	19.2
40°	14.4	18.4	19.2
41°	14.4	18.4	19.2
42°	14.4	18.4	19.2
43°	14.4	18.4	19.2
44°	14.4	17.6	19.2
45°	14.4	17.6	19.2
46°	14.4	18.4	19.2
47°	14.4	18.4	20.0
48°	14.4	17.6	19.2
49°	13.6	17.6	19.2
50°	13.6	17.6	19.2
51°	13.6	18.4	20.0
52°	13.6	18.4	20.0
53°	13.6	18.4	20.0
54°	13.6	18.4	19.2
55°	13.6	18.4	20.0
56°	13.6	18.4	19.2
57°	13.6	18.4	19.2
58°	13.6	17.6	19.2
59°	13.6	17.6	19.2
60°	13.6	17.6	19.2
62.5°	12.8	17.6	19.2
65°	12.8	16.8	18.4



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	12.0	16.8	17.6
70°	11.2	16.0	16.8
72.5°	10.4	15.2	16.0
75°	9.6	13.6	14.4
77.5°	8.0	12.0	13.6
80°	7.2	10.4	11.2
82.5°	5.6	8.8	9.6
85°	4.0	6.4	6.4
87.5°	1.6	3.2	3.2
90°	0.0	0.0	0.0

(END OF REPORT)