

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: P1316439

Luminaire Tested: LDSQA3D09R359740DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316439
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: LDSQA3D09R359740DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

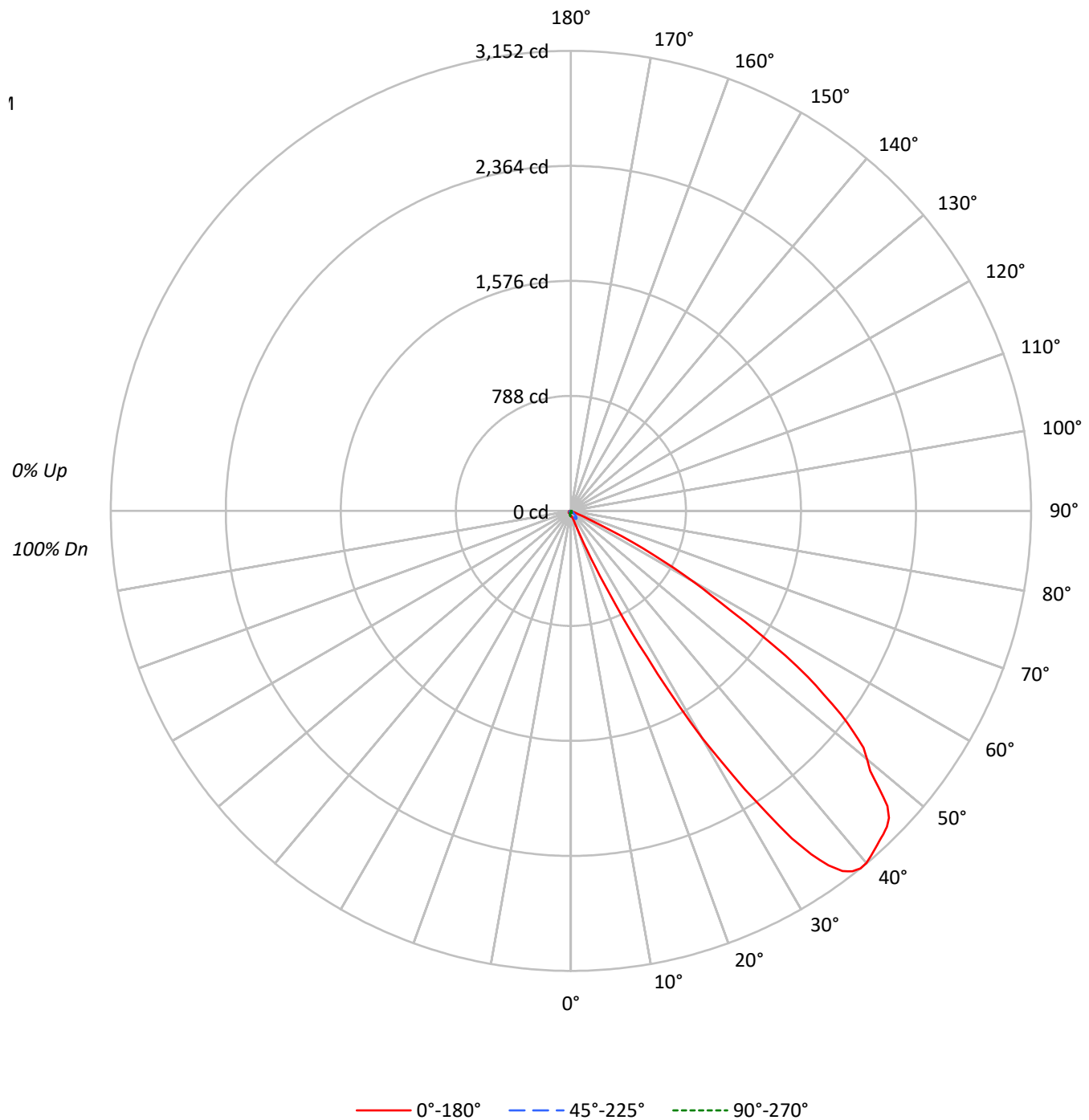
Lumens per Lamp: N/A
Luminaire Lumens: 785.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6217	6217	6217	6217	6217
5°	6742	6621	6120	5515	5394
10°	7065	6436	5456	4704	4704
15°	10109	6312	4422	4047	4172
20°	25329	6745	3501	3501	3904
25°	117550	8627	2698	3230	3630
30°	357381	11693	2108	2963	3659
35°	603992	13561	1787	2838	3574
40°	708005	13377	1439	2878	3822
45°	745609	9499	1218	3118	4141
50°	709722	5707	1152	3215	4555
55°	594697	2342	1291	3603	5315
60°	332941	482	1481	4133	5856
65°	57459	285	1426	4605	6642
70°	1057	352	1762	4985	7503
75°	932	466	2329	5656	8517
80°	694	694	2777	6347	9819
85°	0	1383	5533	6916	11263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 750888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	0.4
10°-20°	9.3	1.2
20°-30°	48.2	6.1
30°-40°	208.0	26.5
40°-50°	296.7	37.8
50°-60°	183.8	23.4
60°-70°	28.0	3.6
70°-80°	5.2	0.7
80°-90°	2.6	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°	60.7	7.7
0°-40°	268.7	34.2
0°-60°	749.2	95.4
0°-90°	785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	39	38	35	32	31	4
15°	57	35	25	23	23	20
25°	619	45	14	17	19	370
35°	2873	64	8	14	17	1725
45°	3061	39	5	13	17	2313
55°	1981	8	4	12	18	1687
65°	141	1	4	11	16	288
75°	1	1	4	8	13	1
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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	36.1	35.4
5°	39.0	39.0	38.3	38.3	38.3	38.3	38.3	38.3	36.8	35.4	33.3
7.5°	39.7	39.7	39.0	39.0	39.0	39.0	38.3	37.6	36.1	33.3	31.2
10°	40.4	40.4	40.4	40.4	39.7	39.0	38.3	36.8	34.7	31.2	29.1
12.5°	45.4	45.4	44.6	43.2	41.8	40.4	39.0	36.1	31.9	28.3	26.2
15°	56.7	56.0	54.6	52.4	49.6	46.1	43.2	35.4	29.1	24.8	23.4
17.5°	79.4	77.9	75.8	68.7	62.4	56.0	50.3	35.4	26.2	22.0	20.6
20°	138.2	138.9	124.0	107.0	92.8	77.2	63.1	36.8	23.4	19.1	18.4
22.5°	288.4	277.1	241.6	200.5	153.1	118.3	89.3	40.4	20.6	16.3	16.3
25°	618.6	575.4	489.7	369.9	260.8	185.0	129.7	45.4	18.4	14.2	14.9
27.5°	1129.6	1090.6	918.4	691.6	459.2	279.2	175.7	51.7	16.3	12.0	13.5
30°	1797.1	1689.4	1464.7	1133.8	767.4	427.3	236.0	58.8	13.5	10.6	12.8
31°	2005.4	1955.8	1682.3	1311.7	899.3	507.4	261.5	60.9	12.8	10.6	12.0
32°	2252.7	2164.9	1919.7	1506.5	1033.2	579.0	292.0	63.1	12.0	9.2	12.0
33°	2473.8	2388.8	2090.5	1678.0	1168.5	660.4	324.6	63.8	10.6	9.2	11.3
34°	2706.3	2590.0	2294.5	1857.3	1307.4	748.3	354.3	64.5	9.9	8.5	11.3
35°	2872.8	2756.6	2470.3	1999.0	1427.2	826.3	388.3	64.5	9.2	8.5	10.6
36°	3001.8	2899.7	2621.9	2145.0	1546.2	896.4	415.3	64.5	7.8	7.8	10.6
37°	3090.3	2993.3	2724.0	2270.5	1636.9	958.8	439.4	64.5	7.1	7.8	10.6
38°	3133.6	3052.8	2822.5	2361.9	1724.8	1007.7	458.5	63.1	6.4	7.1	9.9
39°	3152.0	3086.1	2882.7	2439.1	1790.7	1050.2	472.7	61.7	5.7	7.1	9.9
40°	3149.2	3091.8	2916.7	2492.3	1843.9	1079.2	480.5	59.5	5.0	6.4	9.9
41°	3132.9	3083.3	2934.4	2537.6	1875.7	1099.1	482.6	57.4	4.3	6.4	9.2
42°	3114.4	3069.1	2940.1	2561.7	1896.3	1105.5	476.9	54.6	4.3	5.7	9.2
43°	3095.3	3053.5	2940.1	2569.5	1901.3	1101.2	467.7	49.6	3.5	5.7	9.2
44°	3079.7	3040.0	2930.9	2567.4	1890.6	1084.9	450.7	43.9	2.8	5.7	9.2
45°	3061.3	3022.3	2918.8	2553.9	1870.1	1057.3	429.4	39.0	2.1	5.0	9.2
46°	3028.7	2998.2	2897.6	2526.3	1837.5	1019.0	402.5	35.4	1.4	5.0	8.5
47°	2965.6	2939.4	2856.5	2485.2	1794.3	973.7	374.9	31.9	1.4	5.0	8.5
48°	2838.8	2838.1	2774.3	2408.6	1725.5	917.0	345.8	28.3	1.4	5.0	8.5
49°	2716.2	2703.4	2624.1	2274.0	1627.0	848.9	315.3	25.5	0.7	5.0	8.5
50°	2648.9	2621.2	2490.8	2115.3	1500.9	754.7	282.7	21.3	0.7	4.3	8.5
51°	2578.7	2539.0	2385.3	1972.1	1350.6	664.0	247.3	17.0	0.7	4.3	7.8
52°	2451.9	2414.3	2242.1	1835.4	1204.7	571.2	213.3	14.2	0.7	4.3	8.5
53°	2315.1	2261.2	2074.2	1685.1	1076.4	489.0	178.6	12.0	0.7	4.3	7.8
54°	2142.9	2118.8	1904.1	1500.9	926.2	409.6	146.7	9.9	0.7	4.3	7.8
55°	1980.6	1945.2	1722.0	1312.4	790.1	335.9	122.6	7.8	0.7	4.3	7.8
56°	1773.7	1720.6	1511.5	1139.5	651.9	270.7	103.5	6.4	0.7	4.3	7.8
57°	1527.1	1470.4	1305.3	947.4	511.6	206.2	86.5	5.0	0.7	4.3	7.8
58°	1291.8	1242.9	1065.8	731.3	385.5	143.1	71.6	3.5	0.7	3.5	7.8
59°	1116.1	1062.2	886.5	562.7	267.9	105.6	53.9	2.8	0.7	4.3	7.8
60°	966.6	897.1	713.6	435.8	191.3	75.8	39.7	1.4	1.4	4.3	7.8
62.5°	557.0	491.8	340.9	177.2	78.7	39.0	19.1	0.7	1.4	4.3	7.8
65°	141.0	125.4	81.5	38.3	22.0	13.5	7.1	0.7	1.4	3.5	7.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.0	5.0	5.0	4.3	3.5	2.8	1.4	0.7	1.4	3.5	7.1
70°	2.1	2.1	2.1	1.4	1.4	0.7	0.7	0.7	1.4	3.5	6.4
72.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	3.5	5.7
75°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	2.1	3.5	5.7
77.5°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.8	5.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.8	4.3
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.1	2.8	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	2.1	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	2.8	2.1
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°	36.1	36.1	36.1
2.5°	34.0	34.0	34.0
5°	31.9	31.9	31.2
7.5°	29.8	29.1	29.1
10°	26.9	26.9	26.9
12.5°	24.8	24.8	24.8
15°	22.7	23.4	23.4
17.5°	20.6	22.0	22.0
20°	19.1	20.6	21.3
22.5°	17.7	19.1	19.8
25°	17.0	18.4	19.1
27.5°	15.6	17.7	19.1
30°	14.9	17.0	18.4
31°	14.9	17.0	17.7
32°	14.2	17.0	17.7
33°	14.2	17.0	17.7
34°	14.2	16.3	17.7
35°	13.5	16.3	17.0
36°	13.5	16.3	17.0
37°	13.5	16.3	17.7
38°	13.5	16.3	17.0
39°	12.8	16.3	17.0
40°	12.8	16.3	17.0
41°	12.8	16.3	17.0
42°	12.8	16.3	17.0
43°	12.8	16.3	17.0
44°	12.8	15.6	17.0
45°	12.8	15.6	17.0
46°	12.8	16.3	17.0
47°	12.8	16.3	17.7
48°	12.8	15.6	17.0
49°	12.0	15.6	17.0
50°	12.0	15.6	17.0
51°	12.0	16.3	17.7
52°	12.0	16.3	17.7
53°	12.0	16.3	17.7
54°	12.0	16.3	17.0
55°	12.0	16.3	17.7
56°	12.0	16.3	17.0
57°	12.0	16.3	17.0
58°	12.0	15.6	17.0
59°	12.0	15.6	17.0
60°	12.0	15.6	17.0
62.5°	11.3	15.6	17.0
65°	11.3	14.9	16.3



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	10.6	14.9	15.6
70°	9.9	14.2	14.9
72.5°	9.2	13.5	14.2
75°	8.5	12.0	12.8
77.5°	7.1	10.6	12.0
80°	6.4	9.2	9.9
82.5°	5.0	7.8	8.5
85°	3.5	5.7	5.7
87.5°	1.4	2.8	2.8
90°	0.0	0.0	0.0

(END OF REPORT)