

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: P1310395

Luminaire Tested: LDSQA3D13R409035DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R409035DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

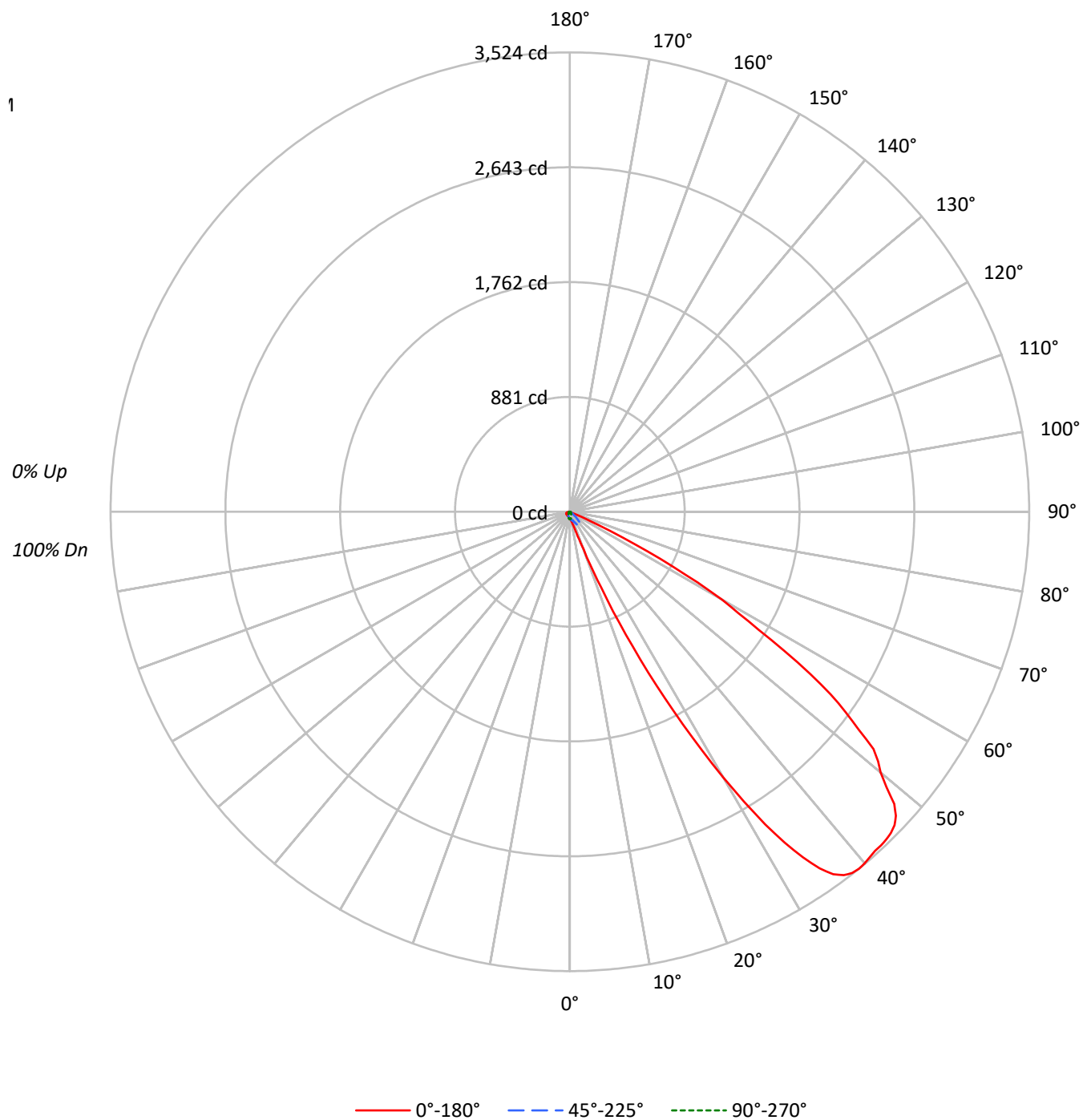
Lumens per Lamp: N/A
Luminaire Lumens: 1089.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310395

CATALOG NUMBER: LDSQA3D13R409035DE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1310395

CATALOG NUMBER: LDSQA3D13R409035DE010 3LSQCA45R 1MW

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	0			
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	99	97	94	96	93	91	92	90	88	86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50			
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	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	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29			
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24			
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21			
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9644	9644	9644	9644	9644
5°	10719	10373	9508	8644	8471
10°	12941	11017	8744	7870	7695
15°	21217	11946	7489	6954	7132
20°	56082	14112	6231	6231	6781
25°	216269	17482	4941	5701	6651
30°	466578	23267	3977	5568	6563
35°	702281	27542	3364	5466	6728
40°	791211	27653	2923	5621	7194
45°	848391	21433	2679	5845	7794
50°	833881	13397	2411	6162	8574
55°	733598	6606	2402	6906	9608
60°	464347	1378	2756	7578	10678
65°	94951	408	2853	8150	11818
70°	2014	504	3021	9064	13596
75°	1996	1331	3327	9981	15305
80°	1984	992	3967	10910	17852
85°	1976	1976	7904	11856	19760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47°

Luminance: 863716 cd/sqm

TEST NUMBER: P1310395

CATALOG NUMBER: LDSQA3D13R409035DE010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.5
10°-20°	17.3	1.6
20°-30°	84.6	7.8
30°-40°	275.1	25.3
40°-50°	379.3	34.8
50°-60°	264.2	24.3
60°-70°	50.1	4.6
70°-80°	9.1	0.8
80°-90°	4.2	0.4
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°	107.1	9.8
0°-40°	382.2	35.1
0°-60°	1025.7	94.2
0°-90°	1089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	62	60	55	50	49	6
15°	119	67	42	39	40	43
25°	1138	92	26	30	35	586
35°	3340	131	16	26	32	2019
45°	3483	88	11	24	32	2649
55°	2443	22	8	23	32	2088
65°	233	1	7	20	29	412
75°	3	2	5	15	23	3
85°	1	1	4	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1310395

CATALOG NUMBER: LDSQA3D13R409035DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	57.0	56.0
5°	62.0	62.0	62.0	62.0	61.0	61.0	61.0	60.0	60.0	58.0	55.0
7.5°	66.0	66.0	66.0	66.0	65.0	64.0	63.0	63.0	62.0	57.0	53.0
10°	74.0	74.0	73.0	72.0	71.0	69.0	68.0	66.0	63.0	56.0	50.0
12.5°	90.0	88.0	87.0	85.0	82.0	78.0	74.0	71.0	64.0	54.0	47.0
15°	119.0	117.0	113.0	107.0	101.0	93.0	86.0	79.0	67.0	51.0	42.0
17.5°	170.0	164.0	158.0	148.0	133.0	119.0	104.0	91.0	71.0	48.0	38.0
20°	306.0	302.0	266.0	238.0	193.0	161.0	131.0	109.0	77.0	45.0	34.0
22.5°	631.1	589.1	530.1	434.0	338.0	249.0	181.0	137.0	83.0	41.0	30.0
25°	1138.1	1072.1	945.1	760.1	561.1	397.0	262.0	179.0	92.0	37.0	26.0
27.5°	1723.2	1656.2	1459.1	1204.1	879.1	599.1	374.0	237.0	104.0	33.0	23.0
30°	2346.2	2289.2	2039.2	1686.2	1239.1	839.1	501.0	296.0	117.0	29.0	20.0
31°	2597.2	2524.2	2254.2	1878.2	1408.1	938.1	552.1	321.0	122.0	28.0	19.0
32°	2828.3	2745.3	2465.2	2062.2	1545.1	1045.1	608.1	343.0	126.0	26.0	18.0
33°	3027.3	2930.3	2660.3	2236.2	1696.2	1145.1	666.1	364.0	129.0	24.0	17.0
34°	3196.3	3112.3	2822.3	2411.2	1830.2	1241.1	723.1	385.0	131.0	23.0	16.0
35°	3340.3	3264.3	2977.3	2544.2	1961.2	1334.1	775.1	405.0	131.0	21.0	16.0
36°	3437.3	3371.3	3111.3	2680.3	2071.2	1413.1	819.1	423.0	131.0	19.0	15.0
37°	3490.3	3426.3	3199.3	2792.3	2179.2	1491.1	859.1	437.0	130.0	18.0	14.0
38°	3517.3	3461.3	3264.3	2883.3	2254.2	1547.1	894.1	448.0	129.0	16.0	14.0
39°	3524.3	3477.3	3305.3	2949.3	2327.2	1603.2	919.1	454.0	126.0	15.0	13.0
40°	3519.3	3478.3	3327.3	3008.3	2383.2	1647.2	937.1	456.0	123.0	13.0	13.0
41°	3509.3	3477.3	3343.3	3049.3	2428.2	1675.2	944.1	452.0	119.0	11.0	12.0
42°	3500.3	3465.3	3350.3	3077.3	2459.2	1689.2	943.1	444.0	113.0	10.0	12.0
43°	3500.3	3460.3	3351.3	3095.3	2474.2	1690.2	931.1	429.0	105.0	9.0	11.0
44°	3494.3	3457.3	3356.3	3107.3	2478.2	1681.2	912.1	413.0	96.0	8.0	11.0
45°	3483.3	3444.3	3355.3	3108.3	2471.2	1659.2	881.1	392.0	88.0	6.0	11.0
46°	3462.3	3427.3	3346.3	3101.3	2450.2	1627.2	844.1	371.0	79.0	5.0	10.0
47°	3420.3	3393.3	3322.3	3077.3	2418.2	1580.2	800.1	347.0	72.0	4.0	10.0
48°	3348.3	3329.3	3281.3	3024.3	2357.2	1522.1	753.1	321.0	65.0	4.0	10.0
49°	3216.3	3201.3	3173.3	2939.3	2279.2	1451.1	702.1	292.0	58.0	3.0	10.0
50°	3112.3	3096.3	3039.3	2796.3	2167.2	1361.1	646.1	263.0	50.0	2.0	9.0
51°	3043.3	3017.3	2927.3	2630.3	2004.2	1241.1	585.1	234.0	42.0	2.0	9.0
52°	2956.3	2917.3	2805.3	2481.2	1855.2	1121.1	519.0	205.0	37.0	2.0	9.0
53°	2774.3	2760.3	2649.3	2321.2	1706.2	1006.1	451.0	181.0	32.0	2.0	9.0
54°	2615.2	2594.2	2443.2	2099.2	1544.1	878.1	381.0	160.0	27.0	2.0	9.0
55°	2443.2	2402.2	2268.2	1912.2	1354.1	760.1	314.0	138.0	22.0	2.0	8.0
56°	2226.2	2190.2	2046.2	1712.2	1179.1	640.1	263.0	113.0	17.0	2.0	8.0
57°	1962.2	1929.2	1818.2	1466.1	997.1	523.0	214.0	91.0	13.0	2.0	8.0
58°	1707.2	1670.2	1543.1	1230.1	805.1	415.0	179.0	74.0	10.0	2.0	8.0
59°	1511.1	1461.1	1297.1	1033.1	630.1	315.0	142.0	59.0	7.0	2.0	8.0
60°	1348.1	1307.1	1137.1	860.1	494.0	232.0	105.0	45.0	4.0	2.0	8.0
62.5°	781.1	770.1	617.1	443.0	233.0	108.0	52.0	21.0	2.0	3.0	8.0
65°	233.0	203.0	158.0	94.0	60.0	36.0	19.0	7.0	1.0	3.0	7.0



TEST NUMBER: P1310395

CATALOG NUMBER: LDSQA3D13R409035DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	7.0	7.0	7.0	7.0	7.0	7.0	4.0	2.0	1.0	3.0	7.0
70°	4.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0	3.0	6.0
72.5°	3.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	2.0	3.0	5.0
75°	3.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	2.0	3.0	5.0
77.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	3.0	5.0
80°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	4.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	4.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1310395

CATALOG NUMBER: LDSQA3D13R409035DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	56.0	56.0	56.0	56.0
2.5°	54.0	53.0	52.0	52.0
5°	52.0	50.0	50.0	49.0
7.5°	49.0	47.0	47.0	47.0
10°	46.0	45.0	45.0	44.0
12.5°	42.0	42.0	42.0	42.0
15°	39.0	39.0	40.0	40.0
17.5°	35.0	36.0	38.0	39.0
20°	32.0	34.0	36.0	37.0
22.5°	30.0	32.0	35.0	36.0
25°	27.0	30.0	34.0	35.0
27.5°	25.0	29.0	32.0	34.0
30°	23.0	28.0	31.0	33.0
31°	23.0	27.0	31.0	33.0
32°	22.0	26.0	31.0	32.0
33°	22.0	26.0	31.0	32.0
34°	21.0	26.0	30.0	32.0
35°	21.0	26.0	30.0	32.0
36°	20.0	25.0	30.0	32.0
37°	20.0	25.0	30.0	32.0
38°	19.0	25.0	30.0	32.0
39°	19.0	25.0	30.0	32.0
40°	19.0	25.0	30.0	32.0
41°	18.0	25.0	30.0	32.0
42°	18.0	25.0	30.0	32.0
43°	18.0	24.0	30.0	32.0
44°	18.0	24.0	30.0	32.0
45°	17.0	24.0	30.0	32.0
46°	17.0	24.0	30.0	32.0
47°	17.0	24.0	30.0	32.0
48°	17.0	24.0	30.0	32.0
49°	17.0	24.0	30.0	32.0
50°	16.0	23.0	30.0	32.0
51°	16.0	23.0	30.0	32.0
52°	16.0	23.0	30.0	32.0
53°	16.0	23.0	30.0	32.0
54°	15.0	23.0	30.0	32.0
55°	15.0	23.0	30.0	32.0
56°	15.0	23.0	30.0	31.0
57°	15.0	23.0	29.0	31.0
58°	15.0	22.0	29.0	31.0
59°	15.0	22.0	29.0	31.0
60°	15.0	22.0	29.0	31.0
62.5°	14.0	22.0	28.0	30.0
65°	13.0	20.0	28.0	29.0



TEST NUMBER: P1310395

CATALOG NUMBER: LDSQA3D13R409035DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	13.0	19.0	26.0	28.0
70°	12.0	18.0	25.0	27.0
72.5°	10.0	17.0	23.0	25.0
75°	9.0	15.0	21.0	23.0
77.5°	8.0	13.0	19.0	20.0
80°	7.0	11.0	16.0	18.0
82.5°	5.0	8.0	13.0	14.0
85°	4.0	6.0	9.0	10.0
87.5°	3.0	3.0	5.0	5.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)