

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: P1311998

Luminaire Tested: LDSQA3D24R609040D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D24R609040D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

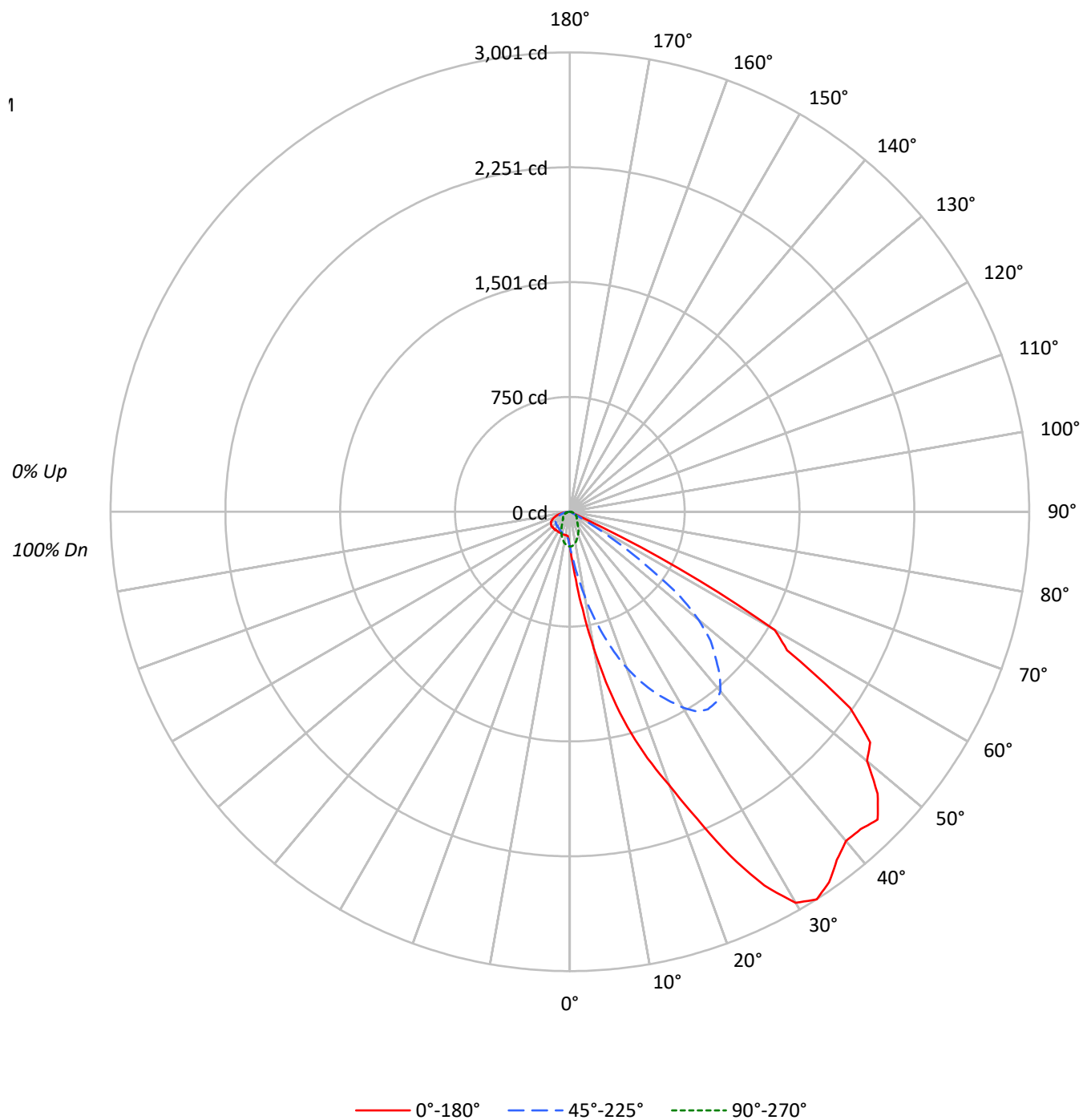
Lumens per Lamp: N/A
Luminaire Lumens: 2285.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1311998

CATALOG NUMBER: LDSQA3D24R609040D010 3LSQCA45R 1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1311998

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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	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	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	38991	38991	38991	38991	38991
5°	76845	59972	38414	29079	27644
10°	158738	97705	35955	26512	26879
15°	259602	146650	32218	26673	27404
20°	348315	198707	28939	26648	27785
25°	471285	246693	25255	26452	28808
30°	586554	293685	21060	26429	30148
35°	620980	331010	17913	27080	31453
40°	630892	344156	16344	28013	34083
45°	692562	327831	15685	29836	36924
50°	678964	293840	15594	31723	40618
55°	671083	180247	15584	34290	44919
60°	532306	42918	16464	36477	48636
65°	33864	7621	16097	37247	52488
70°	7301	8359	15711	38723	55440
75°	6920	8318	13841	37330	56694
80°	6149	8232	14381	37093	53557
85°	4150	8299	16401	32802	53353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 731002 cd/sqm

TEST NUMBER: P1311998

CATALOG NUMBER: LDSQA3D24R609040D010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	1.2
10°-20°	142.4	6.2
20°-30°	330.4	14.5
30°-40°	513.6	22.5
40°-50°	585.3	25.6
50°-60°	492.9	21.6
60°-70°	143.0	6.3
70°-80°	36.7	1.6
80°-90°	12.4	0.5
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°	501.1	21.9
0°-40°	1014.7	44.4
0°-60°	2092.9	91.6
0°-90°	2285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	226	226	226	226	226	
5°	444	347	222	168	160	57
15°	1456	822	181	150	154	421
25°	2480	1298	133	139	152	1152
35°	2954	1574	85	129	150	1835
45°	2844	1346	64	122	152	2138
55°	2235	600	52	114	150	1881
65°	83	19	40	91	129	411
75°	10	12	21	56	85	11
85°	2	4	8	17	27	3
90°	0	0	0	0	0	

TEST NUMBER: P1311998

CATALOG NUMBER: LDSQA3D24R609040D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4	226.4
2.5°	305.3	303.3	303.3	301.2	299.1	297.0	290.8	288.7	276.3	251.3	226.4
5°	444.5	442.4	436.2	434.1	423.7	409.2	394.6	380.1	346.9	276.3	222.2
7.5°	643.9	648.1	643.9	621.1	606.5	583.7	540.0	508.9	442.4	301.2	213.9
10°	907.7	907.7	901.5	866.1	835.0	791.4	735.3	681.3	558.7	324.0	205.6
12.5°	1194.3	1200.6	1169.4	1140.3	1084.2	1030.2	953.4	872.4	691.7	342.7	195.2
15°	1456.0	1451.9	1420.7	1383.3	1325.2	1250.4	1169.4	1065.5	822.5	355.2	180.7
17.5°	1688.7	1680.4	1653.4	1611.8	1541.2	1458.1	1354.3	1242.1	957.5	365.6	170.3
20°	1900.5	1871.5	1840.3	1796.7	1728.1	1640.9	1532.9	1406.2	1084.2	365.6	157.9
22.5°	2168.5	2139.4	2095.8	2029.3	1937.9	1829.9	1703.2	1559.9	1196.4	357.3	145.4
25°	2480.1	2457.2	2382.4	2297.3	2178.9	2050.1	1902.6	1709.4	1298.2	344.8	132.9
27.5°	2752.2	2727.2	2652.5	2527.8	2384.5	2230.8	2075.0	1877.7	1387.5	321.9	118.4
30°	2949.5	2918.3	2860.2	2741.8	2567.3	2380.4	2195.5	2006.5	1476.8	294.9	105.9
32.5°	3001.4	2997.2	2953.6	2866.4	2710.6	2505.0	2284.8	2079.2	1547.4	259.6	95.5
35°	2953.6	2959.9	2951.6	2907.9	2793.7	2592.2	2343.0	2118.6	1574.4	224.3	85.2
37.5°	2866.4	2874.7	2889.2	2895.5	2822.8	2644.1	2376.2	2135.3	1568.2	189.0	78.9
40°	2806.2	2802.0	2802.0	2843.5	2829.0	2667.0	2380.4	2122.8	1530.8	151.6	72.7
42.5°	2812.4	2766.7	2735.5	2802.0	2822.8	2656.6	2353.3	2089.6	1449.8	116.3	66.5
45°	2843.5	2745.9	2691.9	2777.1	2810.3	2621.3	2303.5	2039.7	1346.0	81.0	64.4
47.5°	2727.2	2662.8	2654.5	2775.0	2787.5	2561.1	2226.6	1960.8	1246.3	56.1	60.2
50°	2534.1	2523.7	2567.3	2691.9	2694.0	2461.4	2139.4	1817.5	1096.7	39.5	58.2
52.5°	2473.8	2480.1	2519.5	2583.9	2523.7	2293.1	1981.5	1697.0	907.7	31.2	56.1
55°	2235.0	2245.3	2282.7	2322.2	2278.6	2087.5	1790.5	1551.6	600.3	29.1	51.9
57.5°	1682.4	1709.4	1778.0	1813.3	1817.5	1701.1	1622.2	1337.6	338.6	29.1	49.9
60°	1545.4	1510.0	1478.9	1406.2	1339.7	1325.2	1333.5	1003.2	124.6	27.0	47.8
62.5°	808.0	791.4	839.1	870.3	878.6	924.3	864.1	529.7	27.0	27.0	43.6
65°	83.1	83.1	101.8	135.0	224.3	299.1	284.6	153.7	18.7	24.9	39.5
67.5°	24.9	24.9	24.9	29.1	37.4	37.4	31.2	22.8	18.7	22.8	35.3
70°	14.5	14.5	14.5	14.5	14.5	14.5	16.6	14.5	16.6	20.8	31.2
72.5°	12.5	12.5	12.5	12.5	14.5	14.5	14.5	14.5	14.5	18.7	27.0
75°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	12.5	12.5	14.5	20.8
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	10.4	10.4	10.4	12.5	16.6
80°	6.2	6.2	6.2	6.2	6.2	8.3	8.3	8.3	8.3	10.4	14.5
82.5°	4.2	4.2	4.2	4.2	6.2	6.2	6.2	6.2	6.2	8.3	10.4
85°	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2	8.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	6.2
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: P1311998

CATALOG NUMBER: LDSQA3D24R609040D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	226.4	226.4	226.4	226.4
2.5°	205.6	191.1	182.8	178.6
5°	186.9	168.2	162.0	159.9
7.5°	170.3	157.9	155.8	155.8
10°	159.9	151.6	153.7	153.7
12.5°	153.7	151.6	153.7	155.8
15°	147.5	149.6	153.7	153.7
17.5°	143.3	147.5	151.6	153.7
20°	137.1	145.4	151.6	151.6
22.5°	132.9	143.3	149.6	151.6
25°	128.8	139.2	147.5	151.6
27.5°	122.5	137.1	147.5	149.6
30°	116.3	132.9	145.4	151.6
32.5°	110.1	130.9	145.4	149.6
35°	105.9	128.8	145.4	149.6
37.5°	101.8	126.7	145.4	151.6
40°	99.7	124.6	143.3	151.6
42.5°	95.5	124.6	143.3	151.6
45°	93.5	122.5	143.3	151.6
47.5°	91.4	120.5	143.3	151.6
50°	87.2	118.4	141.2	151.6
52.5°	85.2	116.3	141.2	151.6
55°	81.0	114.2	139.2	149.6
57.5°	78.9	110.1	137.1	145.4
60°	74.8	105.9	132.9	141.2
62.5°	68.5	99.7	126.7	137.1
65°	62.3	91.4	120.5	128.8
67.5°	56.1	85.2	112.2	120.5
70°	49.9	76.9	101.8	110.1
72.5°	43.6	66.5	91.4	97.6
75°	37.4	56.1	76.9	85.2
77.5°	29.1	45.7	64.4	70.6
80°	22.8	37.4	49.9	54.0
82.5°	18.7	27.0	37.4	39.5
85°	12.5	16.6	22.8	27.0
87.5°	6.2	8.3	10.4	12.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)