

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: P1313057

Luminaire Tested: LDSQA3D24R509050D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

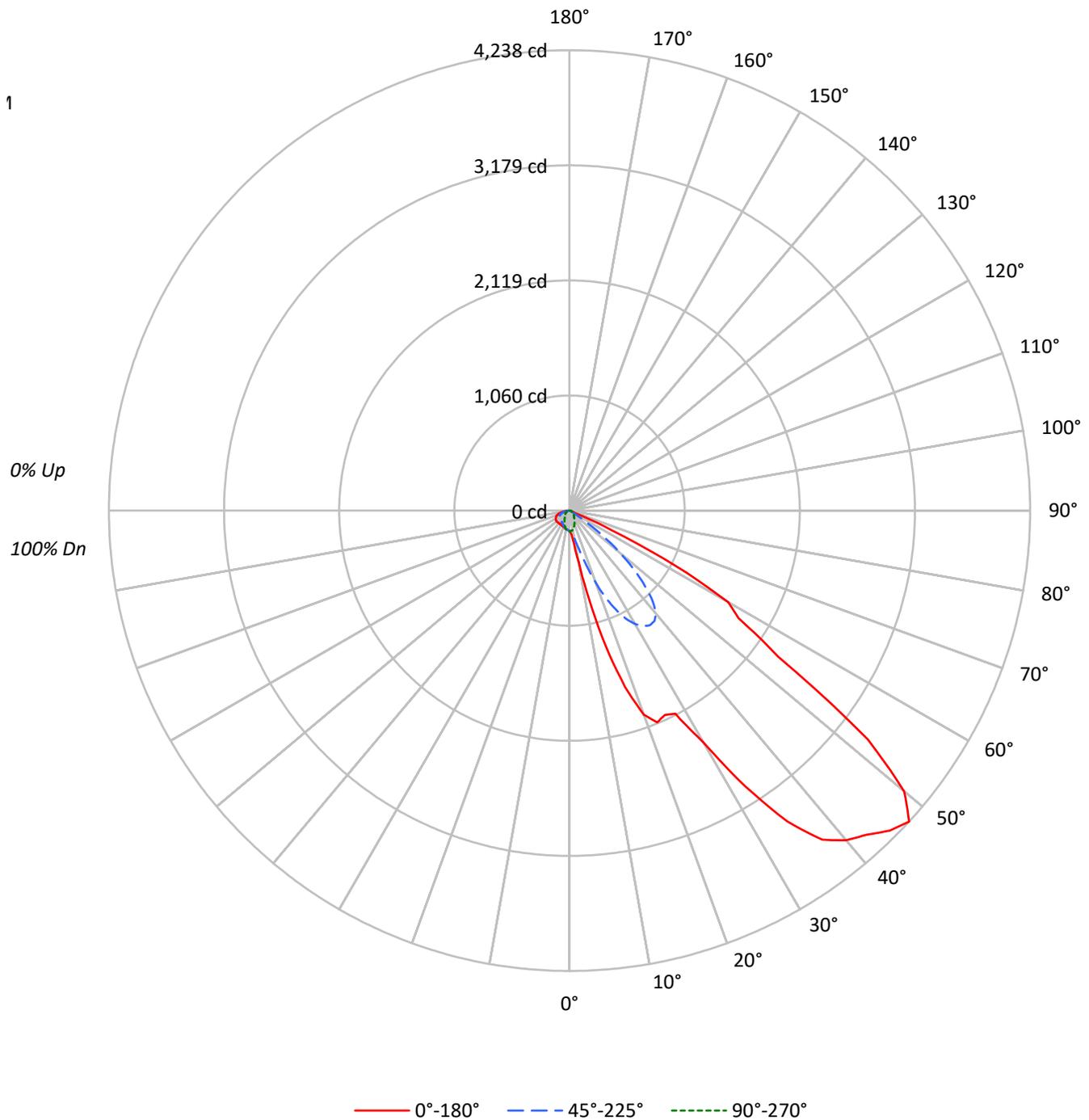
Test Method: LM-79-2019  
Report Number: P1313057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R509050D010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2390.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91  
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 (A<sub>in</sub>): 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: P1313057  
CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1313057

CATALOG NUMBER: LDSQA3D24R509050D010 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	32705	32705	32705	32705	32705
5°	38898	36409	32484	31049	30686
10°	83750	45119	31041	29957	30324
15°	231877	73976	27975	28706	29811
20°	366606	129777	24211	27620	29141
25°	394248	190654	20789	26680	29416
30°	489349	239335	18057	26270	30387
35°	734365	270817	15621	26470	32125
40°	890627	278463	13916	27383	33880
45°	1014621	238835	13566	29154	37216
50°	1076895	164831	13825	31535	41476
55°	703512	66328	13632	34080	45880
60°	580218	11367	13502	36959	50496
65°	174986	5909	12633	39529	55503
70°	7301	6244	12488	40535	60274
75°	6854	6854	12377	41189	65943
80°	6149	6149	12298	40961	67541
85°	4150	8102	16401	40706	65209

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 1080384 cd/sqm



TEST NUMBER: P1313057

CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	0.8
10°-20°	113.2	4.7
20°-30°	290.9	12.2
30°-40°	522.6	21.9
40°-50°	698.0	29.2
50°-60°	531.7	22.2
60°-70°	161.4	6.8
70°-80°	38.6	1.6
80°-90°	13.9	0.6
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°	423.9	17.7
0°-40°	946.5	39.6
0°-60°	2176.2	91.1
0°-90°	2390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	190	190	190	190	190	
5°	225	211	188	180	178	29
15°	1300	415	157	161	167	383
25°	2075	1003	109	140	155	990
35°	3493	1288	74	126	153	2145
45°	4166	981	56	120	153	3185
55°	2343	221	45	114	153	2331
65°	429	14	31	97	136	594
75°	10	10	19	62	99	11
85°	2	4	8	21	33	3
90°	0	0	0	0	0	



TEST NUMBER: P1313057  
 CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9	189.9
2.5°	202.3	202.3	202.3	202.3	202.3	202.3	200.2	200.2	200.2	196.1	192.0
5°	225.0	227.1	225.0	225.0	220.9	220.9	216.8	216.8	210.6	198.2	187.9
7.5°	295.2	293.1	291.1	282.8	276.6	262.2	256.0	245.7	227.1	198.2	183.7
10°	478.9	466.5	458.3	439.7	400.5	375.7	342.7	309.7	258.0	198.2	177.5
12.5°	831.9	829.9	805.1	743.2	687.4	611.0	530.5	450.0	317.9	194.0	169.3
15°	1300.5	1282.0	1246.9	1174.6	1075.5	955.8	811.3	668.8	414.9	187.9	156.9
17.5°	1701.0	1678.3	1651.5	1579.2	1465.7	1315.0	1141.6	945.5	547.0	179.6	144.5
20°	2000.3	1985.9	1963.2	1905.4	1798.0	1661.8	1467.7	1230.3	708.1	169.3	132.1
22.5°	2109.8	2107.7	2111.8	2091.2	2037.5	1930.2	1744.4	1496.6	867.0	156.9	119.7
25°	2074.7	2072.6	2099.4	2126.3	2138.7	2095.3	1952.9	1711.3	1003.3	146.6	109.4
27.5°	2107.7	2101.5	2089.1	2093.2	2128.3	2153.1	2087.0	1876.5	1120.9	132.1	99.1
30°	2460.7	2425.6	2369.9	2274.9	2204.7	2198.5	2169.6	2006.5	1203.5	117.7	90.8
32.5°	3011.9	2968.5	2867.4	2691.9	2524.7	2396.7	2305.9	2115.9	1261.3	103.2	80.5
35°	3492.9	3461.9	3344.2	3170.8	2931.4	2691.9	2526.7	2277.0	1288.1	90.8	74.3
37.5°	3819.0	3806.6	3691.0	3505.2	3261.7	2978.8	2760.0	2442.1	1282.0	76.4	68.1
40°	3961.5	3924.3	3827.3	3670.4	3424.7	3170.8	2939.6	2547.4	1238.6	61.9	61.9
42.5°	4046.1	4004.8	3899.5	3750.9	3509.4	3238.9	2960.3	2502.0	1135.4	49.5	59.9
45°	4165.8	4122.5	3984.2	3825.2	3581.6	3267.8	2879.7	2341.0	980.6	37.2	55.7
47.5°	4238.1	4209.2	4106.0	3947.0	3651.8	3226.6	2694.0	2190.3	809.2	28.9	53.7
50°	4019.3	3990.4	3914.0	3804.6	3606.4	3088.2	2530.9	1946.7	615.2	22.7	51.6
52.5°	3459.8	3484.6	3499.1	3530.0	3385.5	2778.6	2287.3	1752.6	414.9	18.6	47.5
55°	2343.0	2380.2	2421.5	2545.3	2714.6	2473.1	2031.3	1515.2	220.9	18.6	45.4
57.5°	1841.4	1829.0	1816.6	1808.4	1940.5	2039.6	1785.7	1211.8	95.0	18.6	41.3
60°	1684.5	1647.3	1622.6	1628.8	1694.8	1655.6	1414.1	790.6	33.0	18.6	39.2
62.5°	1104.4	1133.3	1189.1	1284.0	1238.6	1063.1	821.6	313.8	16.5	18.6	35.1
65°	429.4	414.9	429.4	456.2	394.3	293.1	183.7	55.7	14.5	16.5	31.0
67.5°	57.8	51.6	39.2	24.8	22.7	20.6	16.5	14.5	14.5	16.5	28.9
70°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.4	12.4	14.5	24.8
72.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	14.5	20.6
75°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	12.4	18.6
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.3	14.5
80°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3	12.4
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	8.3	10.3
85°	2.1	4.1	2.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	8.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	6.2	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: P1313057  
 CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA45R 1MW

**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	189.9	189.9	189.9	189.9
2.5°	187.9	183.7	183.7	183.7
5°	183.7	179.6	179.6	177.5
7.5°	177.5	175.5	175.5	175.5
10°	173.4	171.3	173.4	173.4
12.5°	165.1	167.2	169.3	169.3
15°	156.9	161.0	165.1	167.2
17.5°	148.6	156.9	161.0	163.1
20°	140.4	150.7	156.9	159.0
22.5°	134.2	144.5	152.8	156.9
25°	125.9	140.4	150.7	154.8
27.5°	117.7	134.2	146.6	152.8
30°	111.5	132.1	146.6	152.8
32.5°	105.3	128.0	144.5	150.7
35°	101.2	125.9	144.5	152.8
37.5°	97.0	123.9	144.5	150.7
40°	95.0	121.8	144.5	150.7
42.5°	92.9	121.8	144.5	152.8
45°	88.8	119.7	144.5	152.8
47.5°	86.7	119.7	144.5	152.8
50°	84.6	117.7	144.5	154.8
52.5°	82.6	115.6	144.5	154.8
55°	78.4	113.5	142.4	152.8
57.5°	76.4	111.5	140.4	148.6
60°	72.3	107.3	136.2	146.6
62.5°	68.1	103.2	132.1	140.4
65°	61.9	97.0	125.9	136.2
67.5°	55.7	88.8	119.7	130.1
70°	49.5	80.5	111.5	119.7
72.5°	43.4	72.3	103.2	109.4
75°	37.2	61.9	90.8	99.1
77.5°	31.0	53.7	76.4	82.6
80°	22.7	41.3	61.9	68.1
82.5°	18.6	31.0	45.4	49.5
85°	12.4	20.6	28.9	33.0
87.5°	6.2	10.3	14.5	16.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)