

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: P1309769

Luminaire Tested: LDSQA3D24R659030D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

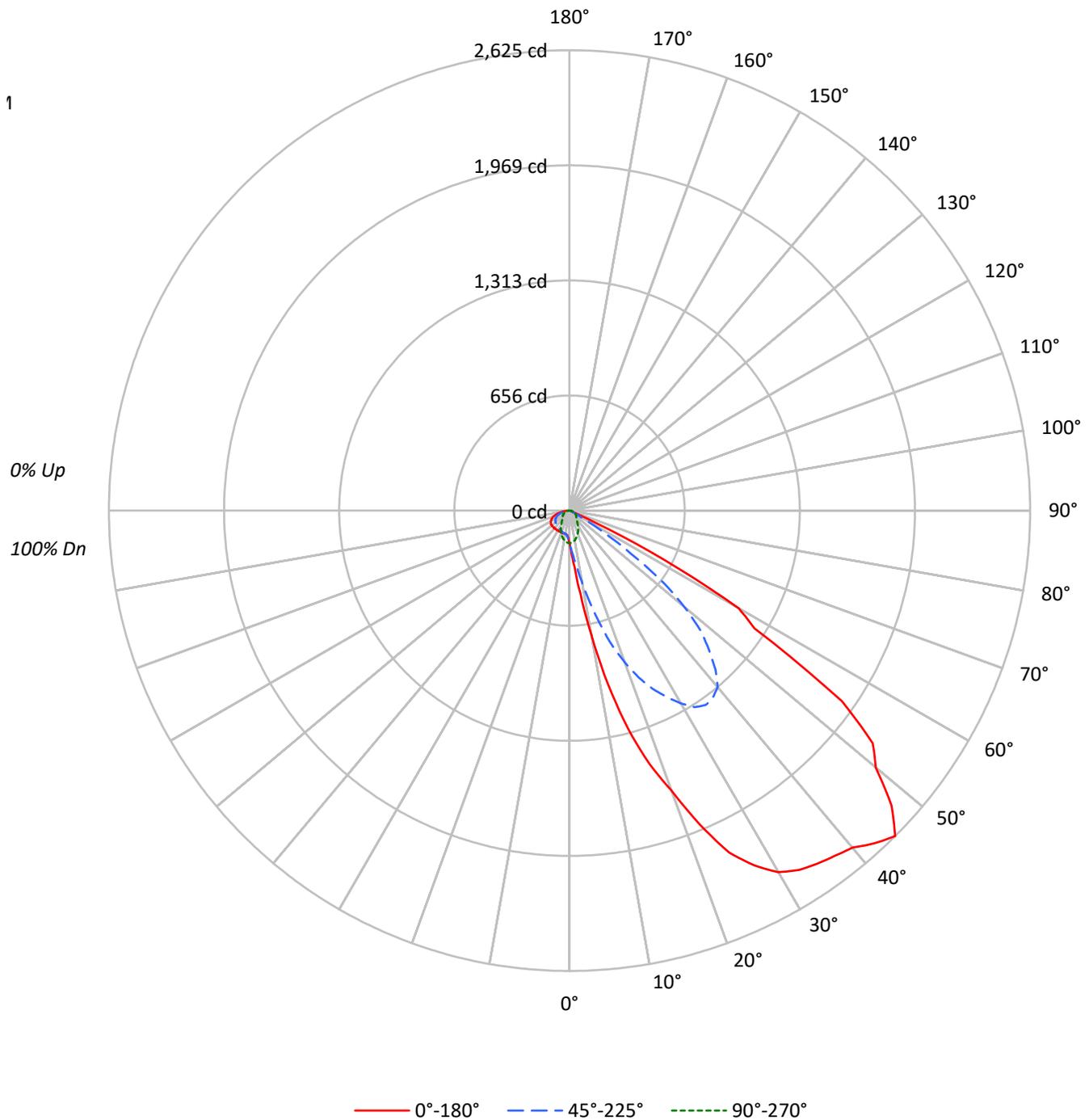
Test Method: LM-79-2019  
Report Number: P1309769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R659030D010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1904.0 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
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

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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	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	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°	135°	180°
0°	31896	31896	31896	31896	31896
5°	55771	45554	31361	25413	24428
10°	126193	73449	30044	23364	23696
15°	229416	118105	27904	23482	24159
20°	311055	168650	25200	23441	24486
25°	408842	212944	22138	22860	25027
30°	473419	252460	18992	22770	26191
35°	516971	284567	16063	23274	27689
40°	563963	295279	14164	24460	29609
45°	639344	273858	13493	26037	32077
50°	610722	228652	13289	27624	35286
55°	569205	128392	13752	29816	38974
60°	383368	27625	13812	31551	42091
65°	59130	7009	13244	32683	45886
70°	6748	6748	12488	33637	49045
75°	6321	6321	11445	33005	49574
80°	5653	7538	11406	30250	49193
85°	3754	7509	11263	30233	45251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 639344 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.4	1.2
10°-20°	121.1	6.4
20°-30°	284.4	14.9
30°-40°	429.8	22.6
40°-50°	494.0	25.9
50°-60°	392.2	20.6
60°-70°	117.5	6.2
70°-80°	31.9	1.7
80°-90°	10.7	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°	427.9	22.5
0°-40°	857.7	45.0
0°-60°	1743.9	91.6
0°-90°	1904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1904.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	185	185	185	185	185	
5°	323	264	181	147	141	43
15°	1287	662	156	132	136	370
25°	2152	1121	116	120	132	982
35°	2459	1354	76	111	132	1543
45°	2625	1124	55	107	132	1950
55°	1896	428	46	99	130	1562
65°	145	17	32	80	113	325
75°	10	10	17	50	74	10
85°	2	4	6	15	23	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2
2.5°	234.8	234.8	234.8	234.8	232.9	231.0	217.6	202.4	185.2	171.8	162.3
5°	322.6	318.8	318.8	318.8	315.0	309.3	263.5	219.5	181.4	160.4	147.0
7.5°	477.3	463.9	463.9	463.9	442.9	439.1	328.4	236.7	177.5	148.9	137.5
10°	721.6	683.4	683.4	683.4	647.2	630.0	420.0	253.9	171.8	141.3	133.6
12.5°	1017.5	948.8	948.8	948.8	899.2	870.5	534.5	269.2	164.2	133.6	131.7
15°	1286.7	1208.4	1208.4	1208.4	1147.4	1124.4	662.4	278.7	156.5	127.9	131.7
17.5°	1513.9	1447.1	1447.1	1447.1	1384.1	1349.7	805.6	284.5	147.0	124.1	129.8
20°	1697.2	1636.1	1636.1	1636.1	1573.1	1540.6	920.2	284.5	137.5	120.3	127.9
22.5°	1933.9	1842.3	1842.3	1842.3	1764.0	1714.3	1029.0	278.7	127.9	116.5	124.1
25°	2151.5	2048.4	2048.4	2048.4	1964.4	1914.8	1120.6	267.3	116.5	110.7	120.3
27.5°	2281.3	2182.1	2182.1	2182.1	2088.5	2050.3	1197.0	250.1	105.0	105.0	118.4
30°	2380.6	2275.6	2275.6	2275.6	2180.2	2134.3	1269.5	229.1	95.5	99.3	114.5
32.5°	2430.3	2346.3	2346.3	2346.3	2252.7	2201.2	1328.7	202.4	84.0	95.5	112.6
35°	2458.9	2382.5	2382.5	2382.5	2294.7	2245.1	1353.5	177.5	76.4	91.6	110.7
37.5°	2481.8	2399.7	2399.7	2399.7	2311.9	2260.3	1342.1	150.8	68.7	87.8	108.8
40°	2508.5	2395.9	2395.9	2395.9	2315.7	2266.1	1313.4	126.0	63.0	85.9	108.8
42.5°	2573.4	2388.3	2388.3	2388.3	2311.9	2254.6	1231.4	99.3	57.3	82.1	106.9
45°	2625.0	2374.9	2409.3	2374.9	2296.6	2231.7	1124.4	72.5	55.4	80.2	106.9
47.5°	2489.4	2352.0	2371.1	2352.0	2268.0	2197.3	1013.7	49.6	53.5	78.3	105.0
50°	2279.4	2256.5	2254.6	2256.5	2180.2	2122.9	853.4	34.4	49.6	76.4	103.1
52.5°	2178.3	2121.0	2140.1	2121.0	2044.6	1995.0	675.8	26.7	47.7	74.5	101.2
55°	1895.7	1886.2	1874.7	1886.2	1863.3	1838.4	427.6	24.8	45.8	70.6	99.3
57.5°	1248.5	1506.3	1353.5	1433.7	1506.3	1555.9	231.0	24.8	42.0	68.7	95.5
60°	1113.0	1116.8	1101.5	1116.8	1149.3	1176.0	80.2	22.9	40.1	63.0	91.6
62.5°	609.0	817.1	662.4	759.8	817.1	822.8	22.9	22.9	36.3	59.2	85.9
65°	145.1	273.0	168.0	210.0	248.2	273.0	17.2	21.0	32.5	55.4	80.2
67.5°	22.9	34.4	24.8	30.5	34.4	34.4	15.3	19.1	28.6	49.6	74.5
70°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	17.2	24.8	43.9	66.8
72.5°	11.5	11.5	11.5	11.5	11.5	11.5	13.4	15.3	21.0	38.2	57.3
75°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	13.4	17.2	30.5	49.6
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	9.5	11.5	15.3	24.8	40.1
80°	5.7	5.7	5.7	5.7	5.7	5.7	7.6	9.5	11.5	19.1	30.5
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.7	7.6	9.5	15.3	22.9
85°	1.9	1.9	1.9	1.9	3.8	3.8	3.8	5.7	5.7	9.5	15.3
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	5.7	7.6
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):**

	157.5°	180°
0°	185.2	185.2
2.5°	156.5	154.6
5°	141.3	141.3
7.5°	135.5	135.5
10°	133.6	135.5
12.5°	133.6	135.5
15°	133.6	135.5
17.5°	133.6	135.5
20°	131.7	133.6
22.5°	129.8	131.7
25°	127.9	131.7
27.5°	126.0	131.7
30°	126.0	131.7
32.5°	126.0	131.7
35°	124.1	131.7
37.5°	124.1	131.7
40°	124.1	131.7
42.5°	124.1	131.7
45°	124.1	131.7
47.5°	124.1	131.7
50°	124.1	131.7
52.5°	122.2	131.7
55°	122.2	129.8
57.5°	118.4	126.0
60°	114.5	122.2
62.5°	110.7	118.4
65°	105.0	112.6
67.5°	99.3	105.0
70°	89.7	97.4
72.5°	80.2	85.9
75°	68.7	74.5
77.5°	57.3	63.0
80°	45.8	49.6
82.5°	32.5	36.3
85°	21.0	22.9
87.5°	9.5	9.5
90°	0.0	0.0

(END OF REPORT)