

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: P1310853

Luminaire Tested: LDSQA3D24R459035D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

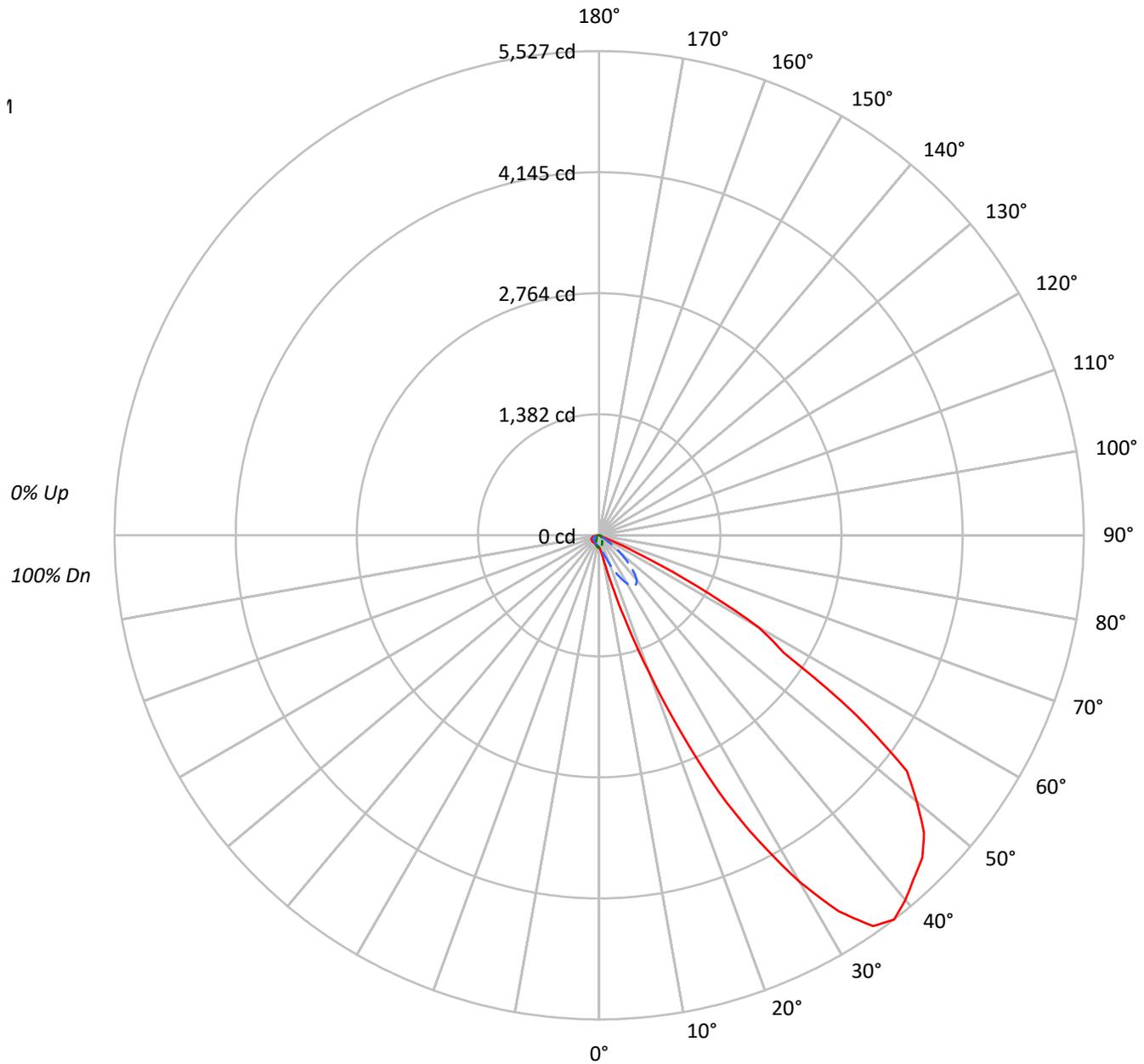
Test Method: LM-79-2019  
Report Number: P1310853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R459035D010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2469.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	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	99	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	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	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	38	38	38	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	33	33	33	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	28	28	28	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	24	24	24	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	21	21	21	19

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

	0°	45°	90°	135°	180°
0°	24593	24593	24593	24593	24593
5°	29269	27160	24342	22578	22578
10°	46728	31758	22839	21405	21405
15°	116393	42560	20736	20005	20736
20°	306602	63560	17943	19061	20197
25°	615610	94196	15506	17825	19763
30°	907543	126180	12568	17441	20284
35°	1144784	147970	10722	17156	21025
40°	1221383	149528	9622	17896	22482
45°	1269043	124727	8939	19387	24356
50°	1267018	86917	8735	20765	27329
55°	1076886	38584	9188	23270	30026
60°	723783	7716	9128	26006	34445
65°	192061	3342	9128	28281	39081
70°	5136	4129	9265	30817	44161
75°	4059	4059	9515	32605	50239
80°	4066	6050	10116	34415	56631
85°	3952	8102	16203	36359	56515

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 1301707 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.2	0.6
10°-20°	69.6	2.8
20°-30°	287.2	11.6
30°-40°	605.3	24.5
40°-50°	746.8	30.2
50°-60°	559.8	22.7
60°-70°	144.1	5.8
70°-80°	29.9	1.2
80°-90°	12.1	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°	371.1	15.0
0°-40°	976.4	39.5
0°-60°	2283.0	92.5
0°-90°	2469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	143	143	143	143	143	
5°	169	157	141	131	131	19
15°	653	239	116	112	116	239
25°	3240	496	82	94	104	1509
35°	5445	704	51	82	100	3318
45°	5210	512	37	80	100	3987
55°	3586	128	31	78	100	3097
65°	471	8	22	69	96	679
75°	6	6	14	49	76	7
85°	2	4	8	18	29	2
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°	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8
2.5°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	148.9	146.9	142.8	138.7
5°	169.3	167.3	167.3	167.3	165.2	163.2	163.2	157.1	148.9	140.8	134.6
7.5°	199.9	199.9	197.9	193.8	191.8	187.7	183.6	167.3	148.9	136.7	128.5
10°	267.2	263.2	257.0	253.0	242.8	228.5	218.3	181.6	146.9	130.6	124.4
12.5°	399.9	408.0	387.6	367.2	338.7	312.1	279.5	206.0	146.9	124.4	118.3
15°	652.8	667.1	628.3	587.5	518.2	452.9	391.7	238.7	142.8	116.3	110.2
17.5°	1067.0	1085.3	1020.0	924.2	816.0	685.5	573.3	283.6	138.7	108.1	104.0
20°	1672.9	1670.8	1544.3	1424.0	1215.9	1024.1	814.0	346.8	132.6	97.9	97.9
22.5°	2417.5	2425.6	2270.6	2054.4	1758.5	1450.5	1115.9	420.3	124.4	89.8	91.8
25°	3239.6	3170.3	2986.7	2723.5	2346.1	1919.7	1479.1	495.7	116.3	81.6	85.7
27.5°	3925.1	3857.8	3647.7	3335.5	2929.5	2423.6	1848.3	571.2	106.1	73.4	79.6
30°	4563.6	4478.0	4225.0	3872.1	3388.6	2841.8	2195.1	634.5	93.8	63.2	73.4
32.5°	5090.0	5012.5	4724.8	4314.8	3788.4	3200.9	2488.9	683.4	81.6	57.1	69.4
35°	5445.0	5365.4	5100.2	4649.3	4076.1	3462.0	2727.6	703.8	71.4	51.0	67.3
37.5°	5526.6	5483.7	5294.0	4871.7	4274.0	3629.3	2880.6	697.7	59.2	46.9	63.2
40°	5432.7	5442.9	5353.2	5002.3	4380.0	3700.7	2943.8	665.1	49.0	42.8	61.2
42.5°	5312.4	5338.9	5332.8	5055.3	4424.9	3704.8	2917.3	599.8	38.8	38.8	59.2
45°	5210.4	5236.9	5273.6	5032.9	4394.3	3651.7	2833.7	512.1	28.6	36.7	59.2
47.5°	5024.7	5053.3	5106.3	4853.3	4239.3	3515.0	2682.7	416.2	20.4	34.7	57.1
50°	4728.9	4743.2	4728.9	4445.3	3941.4	3294.7	2437.9	324.4	14.3	32.6	57.1
52.5°	4424.9	4396.4	4278.0	3919.0	3468.1	2945.9	2129.8	230.5	10.2	30.6	55.1
55°	3586.5	3541.6	3453.8	3233.5	2976.5	2517.5	1721.8	128.5	10.2	30.6	53.0
57.5°	2499.1	2523.6	2554.2	2509.3	2391.0	1983.0	1307.7	57.1	10.2	28.6	53.0
60°	2101.3	2080.9	2082.9	2054.4	1858.5	1446.4	899.7	22.4	10.2	26.5	51.0
62.5°	1254.6	1268.9	1295.4	1301.6	1107.8	807.9	471.3	10.2	10.2	24.5	49.0
65°	471.3	493.7	432.5	375.4	297.9	218.3	110.2	8.2	12.2	22.4	44.9
67.5°	14.3	16.3	20.4	18.4	18.4	16.3	12.2	8.2	12.2	20.4	42.8
70°	10.2	10.2	10.2	10.2	10.2	8.2	8.2	8.2	10.2	18.4	38.8
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10.2	16.3	34.7
75°	6.1	8.2	6.1	6.1	6.1	6.1	6.1	6.1	10.2	14.3	28.6
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.2	12.2	24.5
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.1	8.2	10.2	20.4
82.5°	4.1	4.1	4.1	2.0	4.1	4.1	4.1	4.1	8.2	8.2	16.3
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	6.1	8.2	10.2
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	4.1	6.1	6.1	6.1
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°	142.8	142.8	142.8
2.5°	134.6	134.6	134.6
5°	130.6	130.6	130.6
7.5°	126.5	126.5	126.5
10°	122.4	122.4	122.4
12.5°	118.3	118.3	120.4
15°	112.2	116.3	116.3
17.5°	108.1	112.2	114.2
20°	104.0	108.1	110.2
22.5°	97.9	104.0	108.1
25°	93.8	102.0	104.0
27.5°	89.8	100.0	104.0
30°	87.7	97.9	102.0
32.5°	83.6	95.9	100.0
35°	81.6	95.9	100.0
37.5°	81.6	93.8	100.0
40°	79.6	93.8	100.0
42.5°	79.6	93.8	100.0
45°	79.6	93.8	100.0
47.5°	77.5	93.8	102.0
50°	77.5	95.9	102.0
52.5°	77.5	95.9	102.0
55°	77.5	95.9	100.0
57.5°	75.5	93.8	100.0
60°	75.5	93.8	100.0
62.5°	71.4	91.8	97.9
65°	69.4	89.8	95.9
67.5°	65.3	87.7	91.8
70°	61.2	81.6	87.7
72.5°	55.1	77.5	83.6
75°	49.0	71.4	75.5
77.5°	42.8	63.2	67.3
80°	34.7	53.0	57.1
82.5°	26.5	40.8	42.8
85°	18.4	26.5	28.6
87.5°	8.2	12.2	14.3
90°	0.0	0.0	0.0

(END OF REPORT)