

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: P1320378

Luminaire Tested: LDSQA3D20R259840D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R259840D010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

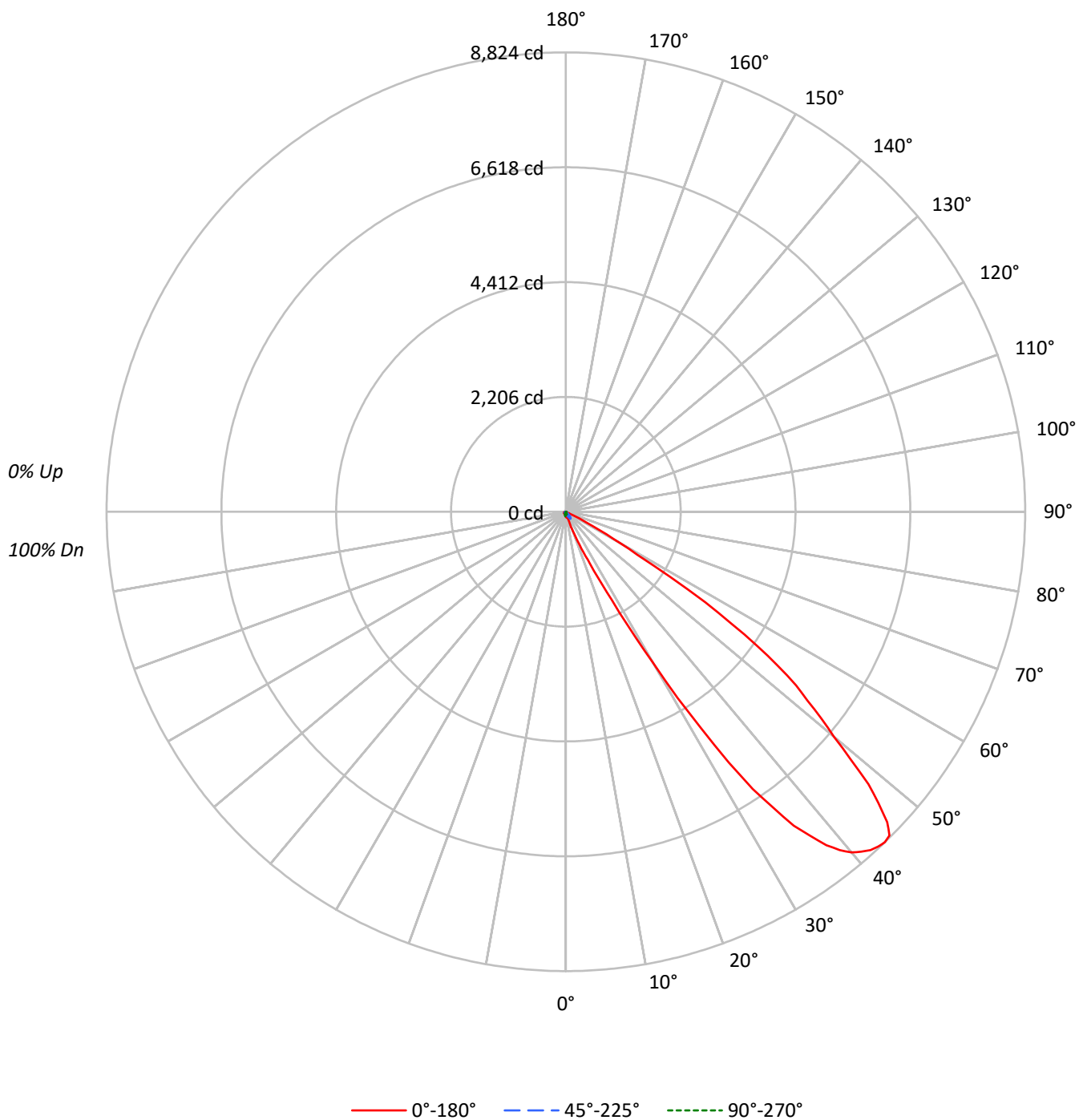
Lumens per Lamp: N/A
Luminaire Lumens: 1840.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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
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	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
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	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16172	16172	16172	16172	16172
5°	18481	17634	15680	14003	13709
10°	18397	16701	13308	11612	11612
15°	20504	14442	10395	9824	10395
20°	72412	14241	8009	8302	9200
25°	208307	18148	6461	7696	8931
30°	664589	28020	5151	7398	9009
35°	1455631	33029	4415	7148	9188
40°	1920216	29856	3642	7284	9825
45°	2141376	20897	3556	7891	10644
50°	1802532	10851	3483	8252	11709
55°	1347661	4384	3393	9248	13121
60°	417158	1102	3341	10023	14501
65°	35617	0	3953	10555	15852
70°	2467	806	4079	12236	17926
75°	2129	1065	5390	12909	20495
80°	1587	1587	8034	14480	24101
85°	3162	3162	12844	16006	25688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2141376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.5
10°-20°	21.7	1.2
20°-30°	101.8	5.5
30°-40°	490.1	26.6
40°-50°	768.2	41.8
50°-60°	393.8	21.4
60°-70°	37.1	2.0
70°-80°	12.5	0.7
80°-90°	6.3	0.3
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°	131.9	7.2
0°-40°	622.0	33.8
0°-60°	1784.1	97.0
0°-90°	1840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	94	94	94	94	94	
5°	107	102	91	81	79	10
15°	115	81	58	55	58	48
25°	1096	96	34	40	47	680
35°	6924	157	21	34	44	4203
45°	8792	86	15	32	44	6433
55°	4488	15	11	31	44	3737
65°	87	0	10	26	39	274
75°	3	2	8	19	31	4
85°	2	2	6	8	13	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
2.5°	102.0	102.0	102.0	102.0	102.0	102.0	100.4	100.4	102.0	100.4	100.4
5°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	105.2	105.2	105.2	102.0
7.5°	108.5	106.9	106.9	106.9	106.9	106.9	106.9	106.9	105.2	105.2	100.4
10°	105.2	105.2	105.2	105.2	103.6	103.6	103.6	102.0	102.0	102.0	95.5
12.5°	105.2	105.2	105.2	105.2	103.6	103.6	102.0	102.0	100.4	98.8	87.4
15°	115.0	115.0	115.0	113.3	111.7	110.1	108.5	106.9	105.2	102.0	81.0
17.5°	168.4	163.5	161.9	155.4	147.3	139.2	132.8	126.3	119.8	115.0	77.7
20°	395.1	393.5	385.4	365.9	344.9	320.6	296.3	268.8	229.9	204.0	77.7
22.5°	684.9	675.2	660.6	646.0	608.8	565.1	519.7	467.9	417.7	364.3	82.6
25°	1096.2	1118.8	1070.3	1031.4	966.6	887.3	801.5	730.2	639.6	555.4	95.5
27.5°	1905.7	1920.3	1824.8	1698.5	1547.9	1381.1	1219.2	1097.8	945.6	806.3	119.8
30°	3341.9	3356.5	3196.2	2927.4	2616.6	2342.9	1972.1	1646.7	1347.1	1115.6	140.9
31°	4170.9	4057.6	3871.4	3610.7	3217.3	2804.4	2359.1	1965.7	1586.8	1282.4	147.3
32°	4891.5	4881.8	4664.8	4269.7	3874.6	3364.6	2812.5	2299.2	1834.5	1450.8	152.2
33°	5741.5	5676.8	5370.7	4998.3	4475.3	3962.1	3249.6	2663.5	2088.7	1638.6	155.4
34°	6423.2	6248.3	6122.0	5696.2	5144.1	4489.9	3727.3	3048.9	2406.1	1819.9	157.1
35°	6923.5	6886.3	6640.2	6243.5	5681.6	5012.9	4242.2	3448.8	2671.6	2030.4	157.1
36°	7453.0	7338.0	7098.4	6738.9	6191.7	5500.3	4635.6	3795.3	2980.9	2219.9	155.4
37°	7784.9	7716.9	7478.9	7108.1	6572.2	5911.5	5076.1	4161.2	3227.0	2409.3	152.2
38°	8126.5	7988.9	7754.1	7399.5	6873.3	6253.2	5395.0	4443.0	3453.7	2576.1	147.3
39°	8362.9	8220.5	7980.8	7627.8	7113.0	6497.7	5647.6	4682.6	3651.2	2700.8	140.9
40°	8541.1	8403.4	8160.5	7797.9	7289.4	6690.4	5858.1	4894.7	3816.4	2809.2	132.8
41°	8651.2	8523.2	8282.0	7920.9	7410.9	6800.5	5995.7	5032.3	3928.1	2882.1	124.7
42°	8743.4	8612.3	8366.2	7997.0	7485.4	6894.4	6079.9	5119.8	4004.2	2919.3	118.2
43°	8795.3	8664.1	8424.5	8047.2	7530.7	6938.1	6125.3	5160.3	4030.1	2914.5	106.9
44°	8824.4	8688.4	8447.1	8069.9	7550.1	6949.4	6128.5	5152.2	4012.3	2875.6	97.1
45°	8792.0	8657.6	8424.5	8047.2	7516.1	6913.8	6096.1	5108.4	3944.3	2799.5	85.8
46°	8581.5	8477.9	8264.2	7917.7	7409.3	6823.1	6013.5	5024.2	3839.0	2705.6	72.9
47°	8210.7	8128.2	7920.9	7663.5	7203.6	6656.4	5861.3	4863.9	3691.7	2564.7	58.3
48°	7823.8	7702.3	7509.6	7245.7	6857.1	6356.8	5610.4	4629.2	3468.2	2380.2	51.8
49°	7252.2	7181.0	7010.9	6716.3	6394.0	5953.6	5255.8	4328.0	3194.6	2179.4	45.3
50°	6727.6	6679.0	6441.0	6224.0	5882.4	5471.1	4774.9	3931.3	2854.6	1930.0	40.5
51°	6317.9	6259.7	6088.0	5817.6	5453.3	4975.7	4319.9	3416.4	2464.4	1633.7	32.4
52°	5890.5	5858.1	5705.9	5427.4	5069.6	4593.5	3877.9	2979.2	2085.5	1381.1	25.9
53°	5540.8	5493.8	5307.6	5059.9	4672.9	4180.7	3398.6	2572.8	1766.5	1160.9	22.7
54°	5030.7	5011.3	4891.5	4632.4	4213.0	3677.1	2964.7	2166.4	1473.4	984.4	19.4
55°	4488.3	4423.5	4302.1	4096.5	3711.1	3210.8	2462.7	1795.6	1191.7	829.0	14.6
56°	3827.7	3824.4	3607.5	3435.9	3094.2	2563.1	1967.3	1402.2	968.3	691.4	13.0
57°	3196.2	3094.2	2885.3	2715.3	2347.8	1944.6	1460.5	1050.8	757.8	560.2	9.7
58°	2364.0	2310.5	2255.5	2006.1	1666.1	1377.9	1042.7	738.3	560.2	427.5	6.5
59°	1604.6	1603.0	1538.2	1348.8	1152.8	858.2	650.9	501.9	385.4	314.1	4.9
60°	1211.1	1182.0	1052.5	927.8	725.4	542.4	385.4	296.3	239.6	202.4	3.2
62.5°	424.2	440.4	387.0	320.6	244.5	200.8	153.8	124.7	102.0	82.6	0.0
65°	87.4	95.5	82.6	77.7	61.5	53.4	47.0	40.5	34.0	29.1	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	11.3	9.7	9.7	9.7	8.1	8.1	8.1	8.1	6.5	6.5	1.6
70°	4.9	4.9	4.9	4.9	4.9	4.9	3.2	3.2	3.2	3.2	1.6
72.5°	4.9	4.9	4.9	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
85°	1.6	1.6	1.6	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	93.9	93.9	93.9	93.9	93.9	93.9
2.5°	98.8	95.5	90.7	89.1	87.4	87.4
5°	97.1	90.7	85.8	81.0	79.3	79.3
7.5°	92.3	84.2	77.7	74.5	72.9	71.2
10°	87.4	76.1	69.6	66.4	66.4	66.4
12.5°	77.7	68.0	61.5	59.9	61.5	61.5
15°	69.6	58.3	55.1	55.1	56.7	58.3
17.5°	59.9	51.8	48.6	50.2	51.8	53.4
20°	53.4	43.7	43.7	45.3	50.2	50.2
22.5°	47.0	38.9	38.9	43.7	47.0	48.6
25°	42.1	34.0	35.6	40.5	45.3	47.0
27.5°	35.6	29.1	32.4	38.9	43.7	45.3
30°	30.8	25.9	30.8	37.2	42.1	45.3
31°	29.1	24.3	30.8	35.6	42.1	45.3
32°	25.9	24.3	29.1	35.6	42.1	43.7
33°	24.3	22.7	29.1	35.6	42.1	43.7
34°	22.7	21.0	27.5	35.6	42.1	43.7
35°	19.4	21.0	27.5	34.0	40.5	43.7
36°	17.8	19.4	27.5	34.0	40.5	43.7
37°	16.2	19.4	25.9	34.0	40.5	43.7
38°	14.6	17.8	25.9	34.0	40.5	43.7
39°	13.0	17.8	24.3	34.0	40.5	43.7
40°	11.3	16.2	24.3	32.4	40.5	43.7
41°	11.3	16.2	24.3	32.4	40.5	43.7
42°	9.7	16.2	24.3	32.4	40.5	43.7
43°	8.1	14.6	24.3	32.4	40.5	43.7
44°	6.5	14.6	22.7	32.4	40.5	43.7
45°	6.5	14.6	22.7	32.4	40.5	43.7
46°	4.9	13.0	22.7	32.4	40.5	43.7
47°	3.2	13.0	22.7	30.8	40.5	43.7
48°	3.2	13.0	22.7	30.8	40.5	43.7
49°	3.2	13.0	21.0	30.8	40.5	43.7
50°	3.2	13.0	21.0	30.8	40.5	43.7
51°	1.6	11.3	21.0	30.8	40.5	43.7
52°	1.6	11.3	21.0	30.8	40.5	45.3
53°	1.6	11.3	21.0	30.8	40.5	43.7
54°	1.6	11.3	19.4	30.8	40.5	43.7
55°	1.6	11.3	19.4	30.8	40.5	43.7
56°	1.6	9.7	19.4	29.1	40.5	43.7
57°	3.2	9.7	19.4	29.1	40.5	42.1
58°	3.2	9.7	19.4	29.1	38.9	42.1
59°	3.2	9.7	19.4	29.1	38.9	42.1
60°	3.2	9.7	17.8	29.1	38.9	42.1
62.5°	3.2	9.7	17.8	27.5	37.2	40.5
65°	3.2	9.7	16.2	25.9	37.2	38.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.2	8.1	16.2	24.3	35.6	37.2
70°	4.9	8.1	14.6	24.3	34.0	35.6
72.5°	4.9	8.1	14.6	21.0	30.8	34.0
75°	4.9	8.1	13.0	19.4	29.1	30.8
77.5°	4.9	8.1	11.3	17.8	25.9	27.5
80°	6.5	8.1	9.7	14.6	22.7	24.3
82.5°	6.5	8.1	8.1	11.3	17.8	19.4
85°	4.9	6.5	6.5	8.1	11.3	13.0
87.5°	4.9	6.5	4.9	3.2	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)