

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: P1324080

Luminaire Tested: LDSQA3D17R409030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-78)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R409030D2WDE010 3LSQCA45R 1MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

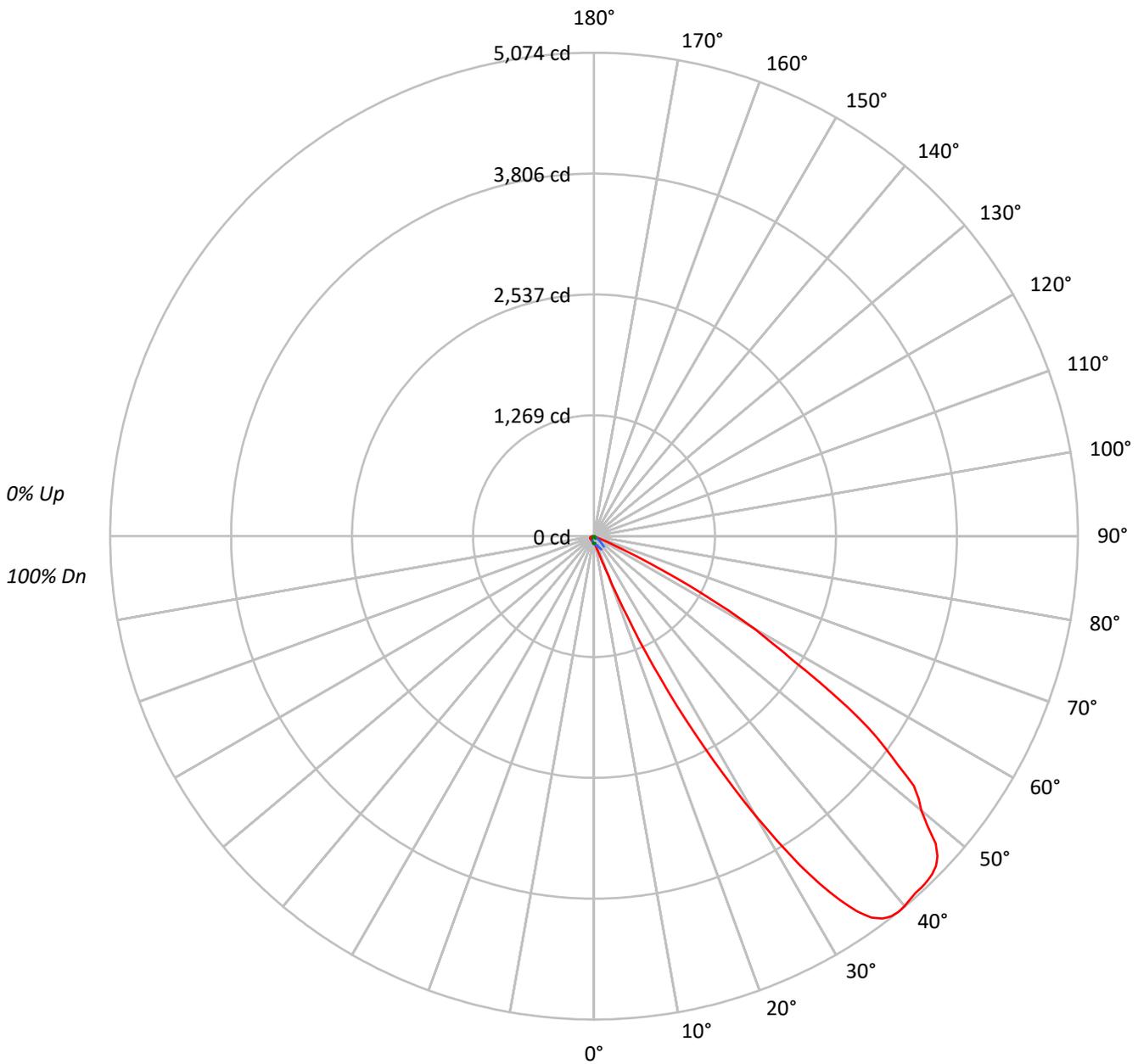
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1568.0 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 3.99 / 0.73 / 1.54
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.3
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	82	78	84	80	76	81	78	75	75	75	75	72
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	62	62	62	60
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	37	35
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	26	26	26	24
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	23	23	23	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13881	13881	13881	13881	13881
5°	15438	14937	13692	12447	12205
10°	18642	15862	12591	11332	11087
15°	30560	17206	10787	10020	10270
20°	80751	20325	8980	8980	9769
25°	311397	25179	7107	8209	9577
30°	671808	33509	5727	8014	9446
35°	1011194	39652	4836	7863	9692
40°	1139234	39816	4204	8094	10364
45°	1221573	30859	3848	8427	11228
50°	1200652	19291	3483	8869	12352
55°	1056288	9518	3453	9939	13842
60°	668603	1998	3961	10919	15362
65°	136721	571	4116	11736	17034
70°	2921	705	4330	13042	19588
75°	2861	1930	4791	14373	22025
80°	2876	1389	5752	15670	25687
85°	2766	2766	11461	16994	28455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47°
 Luminance: 1243642 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.5
10°-20°	24.8	1.6
20°-30°	121.8	7.8
30°-40°	396.1	25.3
40°-50°	546.1	34.8
50°-60°	380.4	24.3
60°-70°	72.1	4.6
70°-80°	13.0	0.8
80°-90°	6.0	0.4
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°	154.2	9.8
0°-40°	550.3	35.1
0°-60°	1476.8	94.2
0°-90°	1568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	81	81	81	81	81	
5°	89	86	79	72	71	9
15°	171	96	60	56	58	62
25°	1639	132	37	43	50	844
35°	4810	189	23	37	46	2906
45°	5016	127	16	35	46	3814
55°	3518	32	12	33	46	3007
65°	336	1	10	29	42	593
75°	4	3	7	22	33	4
85°	1	1	6	9	14	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
2.5°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	82.1	80.6
5°	89.3	89.3	89.3	89.3	87.8	87.8	87.8	86.4	86.4	83.5	79.2
7.5°	95.0	95.0	95.0	95.0	93.6	92.2	90.7	90.7	89.3	82.1	76.3
10°	106.6	106.6	105.1	103.7	102.2	99.4	97.9	95.0	90.7	80.6	72.0
12.5°	129.6	126.7	125.3	122.4	118.1	112.3	106.6	102.2	92.2	77.8	67.7
15°	171.4	168.5	162.7	154.1	145.4	133.9	123.8	113.8	96.5	73.4	60.5
17.5°	244.8	236.2	227.5	213.1	191.5	171.4	149.8	131.0	102.2	69.1	54.7
20°	440.6	434.9	383.0	342.7	277.9	231.8	188.6	157.0	110.9	64.8	49.0
22.5°	908.6	848.2	763.2	625.0	486.7	358.6	260.6	197.3	119.5	59.0	43.2
25°	1638.7	1543.7	1360.8	1094.4	807.8	571.7	377.3	257.8	132.5	53.3	37.4
27.5°	2481.1	2384.6	2100.9	1733.7	1265.8	862.6	538.6	341.3	149.8	47.5	33.1
30°	3378.2	3296.1	2936.1	2427.8	1784.1	1208.2	721.4	426.2	168.5	41.8	28.8
31°	3739.7	3634.5	3245.7	2704.3	2027.5	1350.7	794.9	462.2	175.7	40.3	27.4
32°	4072.3	3952.8	3549.6	2969.3	2224.8	1504.8	875.5	493.9	181.4	37.4	25.9
33°	4358.8	4219.2	3830.4	3219.8	2442.2	1648.8	959.0	524.2	185.8	34.6	24.5
34°	4602.2	4481.2	4063.7	3471.8	2635.2	1787.0	1041.1	554.4	188.6	33.1	23.0
35°	4809.6	4700.1	4286.9	3663.3	2823.8	1920.9	1116.0	583.2	188.6	30.2	23.0
36°	4949.2	4854.2	4479.8	3859.2	2982.2	2034.7	1179.4	609.1	188.6	27.4	21.6
37°	5025.6	4933.4	4606.5	4020.5	3137.7	2147.0	1237.0	629.3	187.2	25.9	20.2
38°	5064.4	4983.8	4700.1	4151.5	3245.7	2227.7	1287.4	645.1	185.8	23.0	20.2
39°	5074.5	5006.8	4759.2	4246.5	3350.9	2308.3	1323.4	653.8	181.4	21.6	18.7
40°	5067.3	5008.3	4790.8	4331.5	3431.5	2371.7	1349.3	656.6	177.1	18.7	18.7
41°	5052.9	5006.8	4813.9	4390.5	3496.3	2412.0	1359.4	650.9	171.4	15.8	17.3
42°	5040.0	4989.6	4824.0	4430.8	3540.9	2432.1	1357.9	639.4	162.7	14.4	17.3
43°	5040.0	4982.4	4825.4	4456.8	3562.5	2433.6	1340.6	617.8	151.2	13.0	15.8
44°	5031.3	4978.0	4832.6	4474.0	3568.3	2420.6	1313.3	594.7	138.2	11.5	15.8
45°	5015.5	4959.3	4831.2	4475.5	3558.2	2388.9	1268.6	564.5	126.7	8.6	15.8
46°	4985.2	4934.8	4818.2	4465.4	3528.0	2342.9	1215.4	534.2	113.8	7.2	14.4
47°	4924.8	4885.9	4783.6	4430.8	3481.9	2275.2	1152.0	499.7	103.7	5.8	14.4
48°	4821.1	4793.7	4724.6	4354.5	3394.1	2191.7	1084.3	462.2	93.6	5.8	14.4
49°	4631.0	4609.4	4569.1	4232.1	3281.7	2089.4	1010.9	420.5	83.5	4.3	14.4
50°	4481.2	4458.2	4376.1	4026.2	3120.5	1959.8	930.2	378.7	72.0	2.9	13.0
51°	4381.9	4344.5	4214.9	3787.2	2885.7	1787.0	842.4	337.0	60.5	2.9	13.0
52°	4256.6	4200.5	4039.2	3572.6	2671.2	1614.2	747.4	295.2	53.3	2.9	13.0
53°	3994.5	3974.4	3814.5	3342.2	2456.6	1448.6	649.4	260.6	46.1	2.9	13.0
54°	3765.6	3735.3	3517.9	3022.5	2223.3	1264.3	548.6	230.4	38.9	2.9	13.0
55°	3517.9	3458.9	3265.9	2753.3	1949.7	1094.4	452.2	198.7	31.7	2.9	11.5
56°	3205.4	3153.6	2946.2	2465.3	1697.7	921.6	378.7	162.7	24.5	2.9	11.5
57°	2825.3	2777.7	2617.9	2111.0	1435.7	753.1	308.2	131.0	18.7	2.9	11.5
58°	2458.1	2404.8	2221.9	1771.2	1159.2	597.6	257.8	106.6	14.4	2.9	11.5
59°	2175.8	2103.8	1867.7	1487.5	907.2	453.6	204.5	85.0	10.1	2.9	11.5
60°	1941.1	1882.1	1637.3	1238.4	711.4	334.1	151.2	64.8	5.8	2.9	11.5
62.5°	1124.6	1108.8	888.5	637.9	335.5	155.5	74.9	30.2	2.9	4.3	11.5
65°	335.5	292.3	227.5	135.4	86.4	51.8	27.4	10.1	1.4	4.3	10.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
67.5°	10.1	10.1	10.1	10.1	10.1	10.1	5.8	2.9	1.4	4.3	10.1
70°	5.8	4.3	4.3	4.3	4.3	2.9	2.9	1.4	1.4	4.3	8.6
72.5°	4.3	4.3	4.3	4.3	2.9	2.9	2.9	1.4	2.9	4.3	7.2
75°	4.3	2.9	2.9	2.9	2.9	1.4	1.4	1.4	2.9	4.3	7.2
77.5°	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	2.9	4.3	7.2
80°	2.9	2.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	4.3	4.3
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):

	112.5°	135°	157.5°	180°
0°	80.6	80.6	80.6	80.6
2.5°	77.8	76.3	74.9	74.9
5°	74.9	72.0	72.0	70.6
7.5°	70.6	67.7	67.7	67.7
10°	66.2	64.8	64.8	63.4
12.5°	60.5	60.5	60.5	60.5
15°	56.2	56.2	57.6	57.6
17.5°	50.4	51.8	54.7	56.2
20°	46.1	49.0	51.8	53.3
22.5°	43.2	46.1	50.4	51.8
25°	38.9	43.2	49.0	50.4
27.5°	36.0	41.8	46.1	49.0
30°	33.1	40.3	44.6	47.5
31°	33.1	38.9	44.6	47.5
32°	31.7	37.4	44.6	46.1
33°	31.7	37.4	44.6	46.1
34°	30.2	37.4	43.2	46.1
35°	30.2	37.4	43.2	46.1
36°	28.8	36.0	43.2	46.1
37°	28.8	36.0	43.2	46.1
38°	27.4	36.0	43.2	46.1
39°	27.4	36.0	43.2	46.1
40°	27.4	36.0	43.2	46.1
41°	25.9	36.0	43.2	46.1
42°	25.9	36.0	43.2	46.1
43°	25.9	34.6	43.2	46.1
44°	25.9	34.6	43.2	46.1
45°	24.5	34.6	43.2	46.1
46°	24.5	34.6	43.2	46.1
47°	24.5	34.6	43.2	46.1
48°	24.5	34.6	43.2	46.1
49°	24.5	34.6	43.2	46.1
50°	23.0	33.1	43.2	46.1
51°	23.0	33.1	43.2	46.1
52°	23.0	33.1	43.2	46.1
53°	23.0	33.1	43.2	46.1
54°	21.6	33.1	43.2	46.1
55°	21.6	33.1	43.2	46.1
56°	21.6	33.1	43.2	44.6
57°	21.6	33.1	41.8	44.6
58°	21.6	31.7	41.8	44.6
59°	21.6	31.7	41.8	44.6
60°	21.6	31.7	41.8	44.6
62.5°	20.2	31.7	40.3	43.2
65°	18.7	28.8	40.3	41.8



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
67.5°	18.7	27.4	37.4	40.3
70°	17.3	25.9	36.0	38.9
72.5°	14.4	24.5	33.1	36.0
75°	13.0	21.6	30.2	33.1
77.5°	11.5	18.7	27.4	28.8
80°	10.1	15.8	23.0	25.9
82.5°	7.2	11.5	18.7	20.2
85°	5.8	8.6	13.0	14.4
87.5°	4.3	4.3	7.2	7.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)