

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: P1324780

Luminaire Tested: LDSQA3D05R30W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R30W2N902765DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

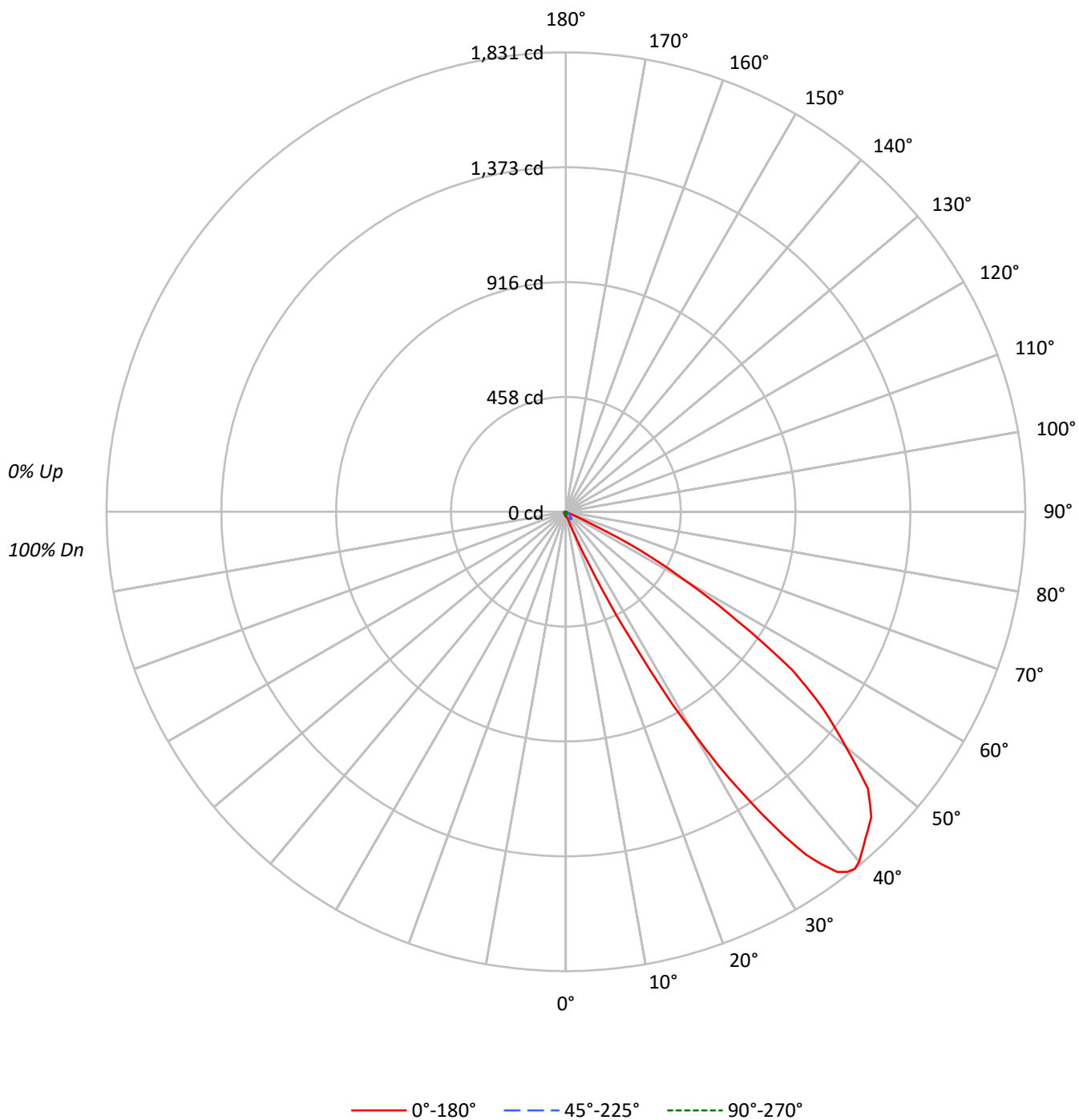
Lumens per Lamp: N/A
Luminaire Lumens: 475.9 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3169	3169	3169	3169	3169
5°	3388	3319	3112	2835	2766
10°	3725	3288	2728	2448	2378
15°	5438	3281	2282	2068	2140
20°	13672	3592	1759	1759	1979
25°	63469	4504	1368	1596	1824
30°	202047	6224	1034	1511	1830
35°	350605	7590	841	1430	1850
40°	408904	7576	629	1439	1888
45°	419337	5383	682	1559	2046
50°	389973	3001	536	1608	2358
55°	331428	1561	601	1802	2642
60°	191408	413	689	1929	2893
65°	39040	0	815	2282	3260
70°	604	201	1007	2618	3827
75°	532	266	1065	2662	4525
80°	397	397	1587	3174	5157
85°	0	790	3162	3162	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 419337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.3
10°-20°	4.8	1.0
20°-30°	27.4	5.8
30°-40°	128.2	26.9
40°-50°	181.3	38.1
50°-60°	111.5	23.4
60°-70°	17.0	3.6
70°-80°	2.7	0.6
80°-90°	1.3	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°	33.9	7.1
0°-40°	162.1	34.1
0°-60°	454.9	95.6
0°-90°	475.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	475.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	20	19	18	16	16	2
15°	30	18	13	12	12	11
25°	334	24	7	8	10	206
35°	1668	36	4	7	9	1001
45°	1722	22	3	6	8	1305
55°	1104	5	2	6	9	939
65°	96	0	2	6	8	173
75°	1	0	2	4	7	1
85°	0	0	2	2	3	0
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°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	18.8	18.8	19.2	19.2	18.8	19.2	19.2	19.2	18.4	18.0	17.2
5°	19.6	19.6	19.6	20.0	19.6	19.6	19.2	18.8	18.0	16.8	16.4
7.5°	20.4	20.4	20.0	20.4	20.0	20.0	19.2	18.4	17.2	16.0	15.2
10°	21.3	21.3	20.9	20.9	20.4	20.4	18.8	17.6	15.6	14.4	14.0
12.5°	23.7	23.7	23.3	22.9	22.1	21.7	18.4	16.4	14.0	12.8	12.4
15°	30.5	30.1	29.3	28.1	26.1	25.7	18.4	15.2	12.8	11.6	11.6
17.5°	41.7	41.3	40.1	36.9	33.3	32.1	18.4	13.6	11.2	10.4	10.4
20°	74.6	71.4	65.4	57.3	48.9	44.5	19.6	12.0	9.6	9.2	9.6
21°	97.4	94.2	86.6	73.4	58.5	53.7	20.4	11.6	9.2	8.8	9.6
22°	132.7	129.1	113.5	95.4	74.2	65.8	20.9	10.8	8.4	8.4	9.2
23°	185.2	179.2	152.8	123.9	92.6	80.6	21.7	10.4	8.0	8.4	8.8
24°	242.6	237.4	207.3	164.0	118.3	101.0	22.5	10.0	7.6	7.6	8.4
25°	334.0	328.0	274.7	206.9	150.0	121.5	23.7	9.2	7.2	7.2	8.4
26°	452.3	424.6	353.6	266.6	184.8	152.4	24.9	8.8	6.8	7.2	8.0
27°	564.6	541.7	461.9	342.0	228.5	187.2	26.5	8.4	6.4	6.8	8.0
28°	712.1	680.0	579.4	432.6	287.9	226.5	28.1	8.0	6.0	6.8	7.6
29°	877.3	832.4	710.9	534.5	354.9	270.6	29.7	7.6	5.6	6.4	7.6
30°	1016.0	973.9	852.4	655.2	431.8	328.8	31.3	7.2	5.2	6.4	7.6
31°	1178.8	1115.1	967.9	757.4	498.0	386.9	32.9	6.4	4.8	6.0	7.2
32°	1310.7	1266.2	1109.9	872.9	585.0	451.1	34.1	6.0	4.8	6.0	7.2
33°	1438.3	1378.5	1227.3	983.6	663.6	516.8	35.3	5.6	4.4	5.6	7.2
34°	1560.1	1505.2	1338.4	1073.0	737.8	579.4	36.1	4.8	4.4	5.6	6.8
35°	1667.6	1603.8	1436.2	1160.4	814.0	636.3	36.1	4.4	4.0	5.2	6.8
36°	1737.4	1691.7	1521.3	1246.6	882.9	690.5	36.1	4.0	3.6	5.2	6.4
37°	1797.1	1743.8	1589.4	1312.8	933.8	733.8	36.1	3.6	3.6	5.2	6.4
38°	1821.6	1775.9	1636.3	1371.3	981.6	777.9	35.7	3.2	3.2	4.8	6.4
39°	1831.2	1790.3	1671.6	1413.4	1016.8	807.5	34.9	2.8	3.2	4.8	6.4
40°	1818.8	1787.9	1689.7	1440.7	1044.9	829.2	33.7	2.4	2.8	4.8	6.4
42.5°	1767.4	1747.0	1685.6	1467.9	1069.0	845.2	29.3	1.6	2.8	4.4	6.4
45°	1721.7	1699.3	1645.1	1439.5	1037.7	813.6	22.1	0.8	2.8	4.4	6.4
47.5°	1633.1	1619.1	1576.6	1366.9	969.1	742.2	15.6	0.4	2.4	4.0	6.0
50°	1455.5	1442.3	1386.1	1186.8	833.6	627.5	11.2	0.4	2.0	4.0	6.0
52.5°	1296.3	1282.3	1201.7	986.8	640.3	459.9	7.2	0.4	2.0	4.0	6.0
55°	1103.8	1079.4	973.5	749.0	453.9	308.3	5.2	0.4	2.0	3.6	6.0
57.5°	817.2	781.5	686.8	510.8	261.4	167.2	2.8	0.4	2.0	3.6	6.0
60°	555.7	534.5	429.8	269.4	111.5	70.6	1.2	0.4	2.0	3.6	5.6
62.5°	336.8	309.9	216.1	114.7	48.1	32.1	0.0	0.8	2.0	3.6	5.6
65°	95.8	85.0	56.5	26.1	13.6	10.4	0.0	0.8	2.0	3.6	5.6
67.5°	3.2	3.2	3.2	2.8	2.0	2.0	0.4	0.8	2.0	3.6	5.2
70°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.8	2.0	3.2	5.2
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.8	1.6	2.8	4.8
75°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.6	2.8	4.0
77.5°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.6	2.4	4.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.4	3.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.4	1.2	1.6	1.6	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	1.2	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.2	1.2	0.8
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°	18.4	18.4
2.5°	17.2	17.2
5°	16.0	16.0
7.5°	14.8	14.8
10°	13.6	13.6
12.5°	12.8	12.8
15°	11.6	12.0
17.5°	10.8	11.2
20°	10.4	10.8
21°	10.4	10.8
22°	10.0	10.4
23°	10.0	10.4
24°	9.6	10.0
25°	9.2	9.6
26°	9.2	9.6
27°	9.2	9.6
28°	8.8	9.6
29°	8.8	9.2
30°	8.8	9.2
31°	8.4	9.2
32°	8.4	9.2
33°	8.4	8.8
34°	8.0	8.8
35°	8.0	8.8
36°	8.0	8.8
37°	8.0	8.4
38°	8.0	8.8
39°	8.0	8.4
40°	8.0	8.4
42.5°	8.0	8.4
45°	8.0	8.4
47.5°	8.0	8.8
50°	8.0	8.8
52.5°	8.0	8.8
55°	8.0	8.8
57.5°	8.0	8.4
60°	8.0	8.4
62.5°	7.6	8.4
65°	7.6	8.0
67.5°	7.6	8.0
70°	7.2	7.6
72.5°	6.8	7.2
75°	6.0	6.8
77.5°	5.6	6.0
80°	4.8	5.2



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	4.0	4.0
85°	2.8	3.2
87.5°	1.6	1.6
90°	0.0	0.0

(END OF REPORT)