

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: P1324688

Luminaire Tested: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324688
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: LDSQA3D05R30W2N902750DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

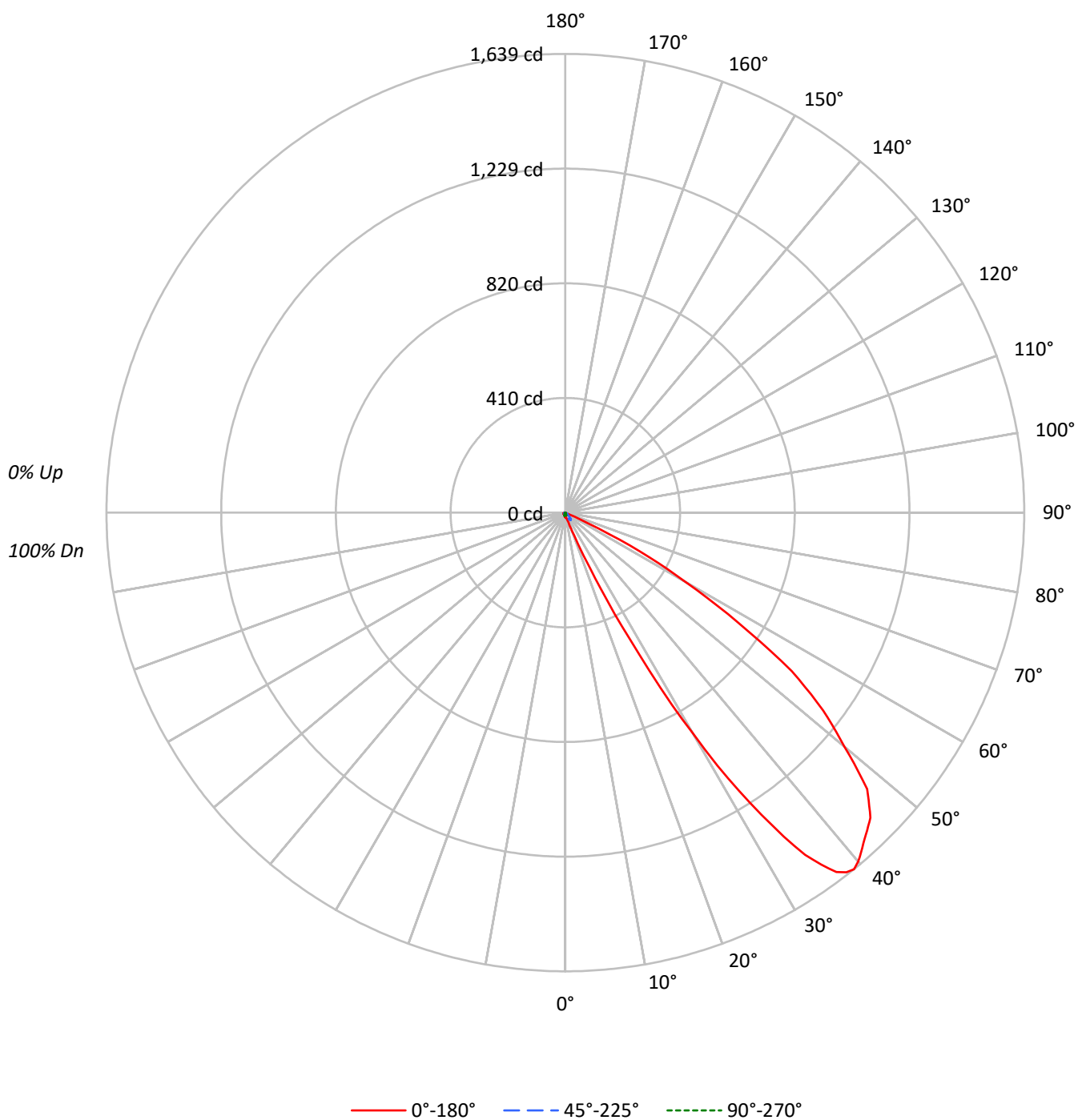
Lumens per Lamp: N/A
Luminaire Lumens: 426.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2842	2842	2842	2842	2842
5°	3043	2974	2783	2541	2489
10°	3323	2955	2448	2203	2134
15°	4868	2942	2050	1854	1926
20°	12224	3226	1576	1576	1778
25°	56799	4029	1235	1425	1634
30°	180828	5568	935	1352	1651
35°	313770	6791	757	1282	1661
40°	365941	6767	562	1281	1686
45°	375301	4798	609	1388	1827
50°	349007	2679	482	1447	2117
55°	296628	1411	540	1621	2372
60°	171327	379	620	1722	2583
65°	34965	0	734	2038	2934
70°	554	201	906	2367	3424
75°	466	266	932	2396	4059
80°	397	397	1389	2876	4661
85°	0	790	2766	2766	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 375301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.4
10°-20°	4.3	1.0
20°-30°	24.6	5.8
30°-40°	114.7	26.9
40°-50°	162.3	38.1
50°-60°	99.8	23.4
60°-70°	15.2	3.6
70°-80°	2.4	0.6
80°-90°	1.2	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°	30.4	7.1
0°-40°	145.1	34.1
0°-60°	407.2	95.6
0°-90°	426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	18	17	16	15	14	2
15°	27	16	12	10	11	10
25°	299	21	6	8	9	184
35°	1492	32	4	6	8	896
45°	1541	20	2	6	8	1168
55°	988	5	2	5	8	841
65°	86	0	2	5	7	155
75°	1	0	1	4	6	1
85°	0	0	1	1	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°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	16.9	16.9	17.2	17.2	16.9	17.2	17.2	17.2	16.5	16.1	15.4
5°	17.6	17.6	17.6	17.9	17.6	17.6	17.2	16.9	16.1	15.1	14.7
7.5°	18.3	18.3	17.9	18.3	17.9	17.9	17.2	16.5	15.4	14.4	13.6
10°	19.0	19.0	18.7	18.7	18.3	18.3	16.9	15.8	14.0	12.9	12.6
12.5°	21.2	21.2	20.8	20.5	19.7	19.4	16.5	14.7	12.6	11.5	11.1
15°	27.3	26.9	26.2	25.1	23.3	23.0	16.5	13.6	11.5	10.4	10.4
17.5°	37.3	37.0	35.9	33.0	29.8	28.7	16.5	12.2	10.0	9.3	9.3
20°	66.7	63.9	58.5	51.3	43.8	39.8	17.6	10.8	8.6	8.3	8.6
21°	87.2	84.3	77.5	65.7	52.4	48.1	18.3	10.4	8.3	7.9	8.6
22°	118.8	115.5	101.6	85.4	66.4	58.9	18.7	9.7	7.5	7.5	8.3
23°	165.8	160.4	136.7	110.9	82.9	72.1	19.4	9.3	7.2	7.5	7.9
24°	217.1	212.4	185.5	146.8	105.9	90.4	20.1	9.0	6.8	6.8	7.5
25°	298.9	293.5	245.8	185.2	134.2	108.7	21.2	8.3	6.5	6.5	7.5
26°	404.8	380.0	316.5	238.6	165.4	136.4	22.2	7.9	6.1	6.5	7.2
27°	505.3	484.8	413.4	306.1	204.5	167.6	23.7	7.5	5.7	6.1	7.2
28°	637.3	608.6	518.5	387.2	257.7	202.7	25.1	7.2	5.4	6.1	6.8
29°	785.2	745.0	636.2	478.3	317.6	242.2	26.6	6.8	5.0	5.7	6.8
30°	909.3	871.6	762.9	586.4	386.5	294.3	28.0	6.5	4.7	5.7	6.8
31°	1055.0	997.9	866.3	677.9	445.7	346.3	29.4	5.7	4.3	5.4	6.5
32°	1173.1	1133.2	993.3	781.2	523.6	403.7	30.5	5.4	4.3	5.4	6.5
33°	1287.2	1233.7	1098.4	880.2	593.9	462.6	31.6	5.0	3.9	5.0	6.5
34°	1396.3	1347.1	1197.8	960.3	660.3	518.5	32.3	4.3	3.9	5.0	6.1
35°	1492.4	1435.4	1285.4	1038.5	728.5	569.5	32.3	3.9	3.6	4.7	6.1
36°	1554.9	1514.0	1361.5	1115.6	790.2	617.9	32.3	3.6	3.2	4.7	5.7
37°	1608.3	1560.6	1422.5	1174.9	835.7	656.7	32.3	3.2	3.2	4.7	5.7
38°	1630.2	1589.3	1464.4	1227.2	878.5	696.2	31.9	2.9	2.9	4.3	5.7
39°	1638.8	1602.2	1496.0	1264.9	910.0	722.7	31.2	2.5	2.9	4.3	5.7
40°	1627.7	1600.1	1512.2	1289.3	935.1	742.1	30.1	2.2	2.5	4.3	5.7
42.5°	1581.8	1563.5	1508.6	1313.7	956.7	756.4	26.2	1.4	2.5	3.9	5.7
45°	1540.9	1520.8	1472.3	1288.3	928.7	728.1	19.7	0.7	2.5	3.9	5.7
47.5°	1461.6	1449.0	1411.0	1223.3	867.3	664.2	14.0	0.4	2.2	3.6	5.4
50°	1302.6	1290.8	1240.5	1062.2	746.0	561.6	10.0	0.4	1.8	3.6	5.4
52.5°	1160.1	1147.6	1075.5	883.1	573.1	411.6	6.5	0.4	1.8	3.6	5.4
55°	987.9	966.0	871.3	670.3	406.2	276.0	4.7	0.4	1.8	3.2	5.4
57.5°	731.3	699.4	614.7	457.2	234.0	149.6	2.5	0.4	1.8	3.2	5.4
60°	497.4	478.3	384.7	241.1	99.8	63.2	1.1	0.4	1.8	3.2	5.0
62.5°	301.4	277.4	193.4	102.6	43.1	28.7	0.0	0.7	1.8	3.2	5.0
65°	85.8	76.1	50.6	23.3	12.2	9.3	0.0	0.7	1.8	3.2	5.0
67.5°	2.9	2.9	2.9	2.5	1.8	1.8	0.4	0.7	1.8	3.2	4.7
70°	1.1	1.1	1.1	0.7	0.7	0.4	0.4	0.7	1.8	2.9	4.7
72.5°	0.7	0.7	0.7	0.7	0.4	0.4	0.4	0.7	1.4	2.5	4.3
75°	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.4	2.5	3.6
77.5°	0.7	0.7	0.7	0.4	0.4	0.4	0.4	1.1	1.4	2.2	3.6
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.1	1.4	2.2	2.9



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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	1.1	1.4	1.4	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.4	1.1	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.1	1.1	0.7
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°	16.5	16.5
2.5°	15.4	15.4
5°	14.4	14.4
7.5°	13.3	13.3
10°	12.2	12.2
12.5°	11.5	11.5
15°	10.4	10.8
17.5°	9.7	10.0
20°	9.3	9.7
21°	9.3	9.7
22°	9.0	9.3
23°	9.0	9.3
24°	8.6	9.0
25°	8.3	8.6
26°	8.3	8.6
27°	8.3	8.6
28°	7.9	8.6
29°	7.9	8.3
30°	7.9	8.3
31°	7.5	8.3
32°	7.5	8.3
33°	7.5	7.9
34°	7.2	7.9
35°	7.2	7.9
36°	7.2	7.9
37°	7.2	7.5
38°	7.2	7.9
39°	7.2	7.5
40°	7.2	7.5
42.5°	7.2	7.5
45°	7.2	7.5
47.5°	7.2	7.9
50°	7.2	7.9
52.5°	7.2	7.9
55°	7.2	7.9
57.5°	7.2	7.5
60°	7.2	7.5
62.5°	6.8	7.5
65°	6.8	7.2
67.5°	6.8	7.2
70°	6.5	6.8
72.5°	6.1	6.5
75°	5.4	6.1
77.5°	5.0	5.4
80°	4.3	4.7

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	3.6	3.6
85°	2.5	2.9
87.5°	1.4	1.4
90°	0.0	0.0

(END OF REPORT)