

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: P1324419

Luminaire Tested: LDSQA3D05R20W2N902765DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R20W2N902765DE010 3LSQCA45R 1MMS_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

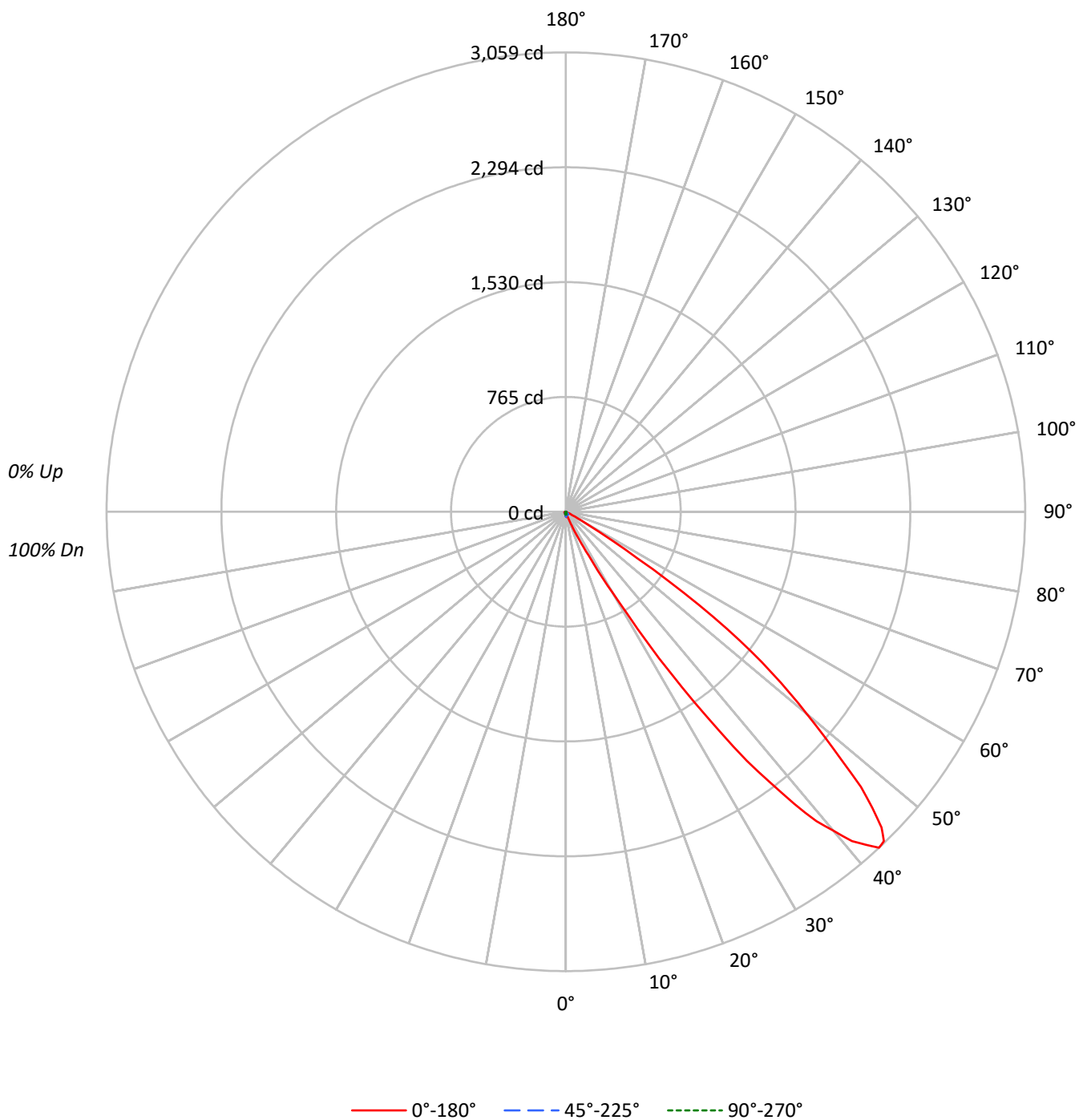
Lumens per Lamp: N/A
Luminaire Lumens: 425.1 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	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	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	65		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	38	52	44	38		50	43	38		48	42	37	35
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	57	42	33	27	55	42	33	27	40	33	27		39	32	27		38	31	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	19		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5098	5098	5098	5098	5098
5°	5930	5532	4772	4149	4011
10°	5858	5037	3777	3218	3148
15°	5135	3851	2781	2567	2710
20°	7606	3226	2053	2199	2419
25°	32780	3344	1596	1976	2356
30°	123993	4057	1352	1909	2307
35°	375855	4878	1261	1934	2439
40°	623248	4856	1079	2068	2608
45°	724419	3312	974	2143	2825
50°	562333	1822	965	2251	3215
55°	325483	1201	961	2522	3483
60°	55042	276	827	2618	3858
65°	4238	0	978	2934	4401
70°	604	0	1209	3223	5035
75°	532	266	1331	3726	5856
80°	397	397	1984	3967	6744
85°	790	790	3162	3952	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 724419 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.6
10°-20°	5.3	1.3
20°-30°	17.0	4.0
30°-40°	108.4	25.5
40°-50°	198.4	46.7
50°-60°	81.5	19.2
60°-70°	6.9	1.6
70°-80°	3.4	0.8
80°-90°	1.6	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°	24.8	5.8
0°-40°	133.2	31.3
0°-60°	413.1	97.2
0°-90°	425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	425.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30	30	30	30	30	
5°	34	32	28	24	23	3
15°	29	22	16	14	15	9
25°	172	18	8	10	12	113
35°	1788	23	6	9	12	1132
45°	2974	14	4	9	12	2136
55°	1084	4	3	8	12	948
65°	10	0	2	7	11	34
75°	1	0	2	6	9	1
85°	0	0	2	2	4	0
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°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	32.4	32.4	32.4	32.0	32.0	32.4	32.0	32.0	32.0	32.0	31.6
5°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	33.9	33.9	33.5	32.0
7.5°	35.1	35.1	35.1	35.1	34.7	34.7	34.7	34.7	34.3	33.9	31.2
10°	33.5	33.5	33.5	33.2	33.2	33.2	32.8	32.8	32.4	32.0	28.8
12.5°	30.4	30.4	30.4	30.4	30.0	30.0	29.6	29.6	29.2	28.8	25.2
15°	28.8	28.8	28.8	28.4	28.4	28.0	27.6	27.2	26.8	26.0	21.6
17.5°	31.2	31.2	30.8	30.8	30.0	29.2	28.8	27.6	26.8	25.6	19.2
20°	41.5	41.9	40.3	39.1	38.3	35.9	34.7	32.8	31.2	29.2	17.6
22.5°	83.9	82.3	79.5	75.1	69.9	65.5	57.5	51.1	46.7	40.7	17.2
25°	172.5	170.9	163.4	157.0	141.0	128.6	111.4	97.5	83.1	69.1	17.6
27.5°	327.9	317.1	315.1	286.0	263.6	231.7	198.5	170.5	145.0	116.6	18.8
30°	623.5	611.1	567.5	523.6	463.3	395.0	329.9	269.2	218.5	172.5	20.4
31°	791.2	803.2	752.1	663.8	574.7	487.3	398.2	321.1	255.6	198.5	21.2
32°	1040.0	987.7	933.8	843.1	713.7	601.9	490.1	379.0	292.8	226.5	22.0
33°	1275.3	1244.5	1162.3	1049.2	893.9	736.9	591.9	447.3	338.3	260.4	22.4
34°	1526.1	1492.2	1425.5	1263.3	1092.8	887.1	693.8	526.0	392.6	293.6	22.8
35°	1787.7	1773.3	1644.7	1504.1	1294.5	1046.4	816.4	612.3	445.7	323.9	23.2
36°	2050.9	2004.6	1903.9	1698.6	1479.8	1193.8	945.0	692.6	499.6	359.9	23.2
37°	2249.0	2238.6	2105.2	1905.1	1647.9	1351.2	1056.0	781.6	554.0	390.6	23.2
38°	2467.5	2426.4	2291.0	2087.3	1806.1	1495.4	1172.2	859.1	605.5	418.6	22.8
39°	2651.6	2590.5	2453.9	2252.6	1944.3	1604.8	1264.5	934.2	651.0	441.7	22.4
40°	2772.2	2729.9	2587.3	2360.9	2069.7	1708.2	1358.0	996.1	685.0	459.3	21.6
41°	2905.2	2834.9	2694.0	2466.3	2160.8	1799.3	1416.7	1036.8	711.3	470.9	20.8
42°	2984.7	2927.2	2759.9	2537.0	2225.9	1851.2	1464.6	1068.0	727.3	476.9	19.2
43°	3059.0	2980.7	2817.8	2578.1	2269.0	1888.0	1486.6	1082.4	730.9	476.9	17.2
44°	3049.0	2974.7	2805.8	2583.7	2278.6	1898.7	1495.8	1082.8	725.3	470.9	15.2
45°	2974.3	2900.4	2748.3	2535.0	2244.2	1877.6	1477.4	1066.8	709.7	460.5	13.6
46°	2837.3	2763.8	2647.2	2453.5	2180.3	1829.7	1434.6	1032.1	683.8	443.7	12.0
47°	2688.4	2616.9	2497.4	2322.1	2071.3	1744.2	1372.7	983.3	647.4	419.4	10.8
48°	2472.3	2427.6	2307.7	2158.0	1919.9	1610.4	1264.1	903.8	598.7	387.8	9.2
49°	2281.4	2234.2	2129.2	1968.2	1722.6	1454.6	1134.3	807.2	535.2	352.7	8.0
50°	2098.8	2057.7	1960.7	1778.9	1544.5	1266.5	959.0	685.4	455.3	309.1	6.8
51°	1920.3	1889.6	1790.5	1623.6	1385.5	1121.9	830.8	570.7	376.2	256.4	6.4
52°	1741.0	1737.4	1630.0	1461.0	1231.0	977.7	706.1	481.7	319.1	215.3	6.0
53°	1548.1	1524.9	1431.1	1279.3	1058.4	827.6	598.7	406.2	274.8	183.3	5.2
54°	1328.4	1302.4	1201.8	1064.8	864.7	677.8	482.5	328.3	228.9	155.0	4.8
55°	1084.0	1039.6	966.5	826.0	675.4	517.2	372.6	260.0	182.9	129.0	4.0
56°	822.4	778.0	736.9	633.4	495.7	385.8	277.6	199.3	143.0	101.8	3.6
57°	571.9	569.5	502.0	422.6	331.5	262.8	190.1	140.6	101.0	79.1	2.8
58°	371.0	358.7	315.5	269.6	216.9	164.2	122.2	95.5	68.7	53.9	2.4
59°	260.0	235.2	212.1	179.7	136.6	103.4	78.7	61.1	47.5	37.5	1.6
60°	159.8	154.6	139.0	109.4	88.7	73.1	58.7	45.1	34.7	26.8	0.8
62.5°	45.5	46.3	41.9	37.1	32.0	27.6	24.8	21.2	17.6	14.0	0.0
65°	10.4	10.0	10.8	10.0	9.2	9.2	8.0	7.2	6.4	6.0	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°	3.2	3.2	2.8	2.8	2.8	2.4	2.4	2.0	2.0	1.6	0.0
70°	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.4	0.0
72.5°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.4	0.8	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	29.6	29.6	29.6	29.6	29.6	29.6
2.5°	30.8	29.2	28.0	26.8	26.4	26.4
5°	30.0	27.6	25.2	24.0	23.2	23.2
7.5°	27.6	24.8	22.4	21.2	20.8	20.8
10°	24.8	21.6	19.2	18.4	18.4	18.0
12.5°	21.6	18.4	16.8	16.4	16.4	16.4
15°	18.0	15.6	14.4	14.4	14.8	15.2
17.5°	15.2	12.8	12.4	13.2	14.0	14.0
20°	12.8	11.2	11.2	12.0	12.8	13.2
22.5°	10.8	9.6	10.0	11.2	12.4	12.8
25°	9.6	8.4	9.2	10.4	11.6	12.4
27.5°	8.0	7.6	8.4	10.0	11.6	12.0
30°	6.8	6.8	8.0	9.6	11.2	11.6
31°	6.4	6.4	8.0	9.6	11.2	11.6
32°	6.0	6.4	7.6	9.6	11.2	11.6
33°	5.6	6.0	7.6	9.2	11.2	11.6
34°	5.2	6.0	7.6	9.2	11.2	11.6
35°	4.8	6.0	7.6	9.2	11.2	11.6
36°	4.4	5.6	7.2	9.2	11.2	11.6
37°	4.0	5.6	7.2	9.2	11.2	11.6
38°	3.6	5.2	7.2	9.2	11.2	11.6
39°	3.6	5.2	6.8	9.2	10.8	11.6
40°	3.2	4.8	6.8	9.2	10.8	11.6
41°	2.8	4.8	6.8	8.8	10.8	11.6
42°	2.4	4.4	6.4	8.8	10.8	11.6
43°	2.0	4.4	6.4	8.8	10.8	11.6
44°	2.0	4.0	6.4	8.8	10.8	11.6
45°	1.6	4.0	6.4	8.8	10.8	11.6
46°	1.2	4.0	6.4	8.8	10.8	11.6
47°	1.2	3.6	6.0	8.8	10.8	11.6
48°	0.8	3.6	6.0	8.8	10.8	11.6
49°	0.8	3.6	6.0	8.8	10.8	12.0
50°	0.8	3.6	6.0	8.4	10.8	12.0
51°	0.4	3.6	6.0	8.4	10.8	12.0
52°	0.4	3.6	5.6	8.4	11.2	12.0
53°	0.4	3.2	5.6	8.4	11.2	12.0
54°	0.4	3.2	5.6	8.4	11.2	11.6
55°	0.4	3.2	5.6	8.4	10.8	11.6
56°	0.4	2.8	5.6	8.4	10.8	11.6
57°	0.4	2.8	5.2	8.0	10.8	11.2
58°	0.4	2.8	5.2	8.0	10.8	11.2
59°	0.4	2.8	5.2	8.0	10.4	11.2
60°	0.8	2.4	4.8	7.6	10.4	11.2
62.5°	0.8	2.4	4.8	7.6	10.0	10.8
65°	0.8	2.4	4.4	7.2	10.0	10.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.0	4.0	6.8	9.6	10.4
70°	0.8	2.4	4.0	6.4	9.2	10.0
72.5°	1.2	2.0	3.6	6.0	8.8	9.6
75°	1.2	2.0	3.6	5.6	8.4	8.8
77.5°	1.6	2.0	3.2	4.8	7.6	8.0
80°	1.6	2.0	2.8	4.0	6.4	6.8
82.5°	1.6	2.0	2.0	3.2	4.8	5.2
85°	1.2	1.6	1.6	2.0	3.2	3.6
87.5°	1.2	1.6	1.2	0.8	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)