

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: P1325265

Luminaire Tested: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

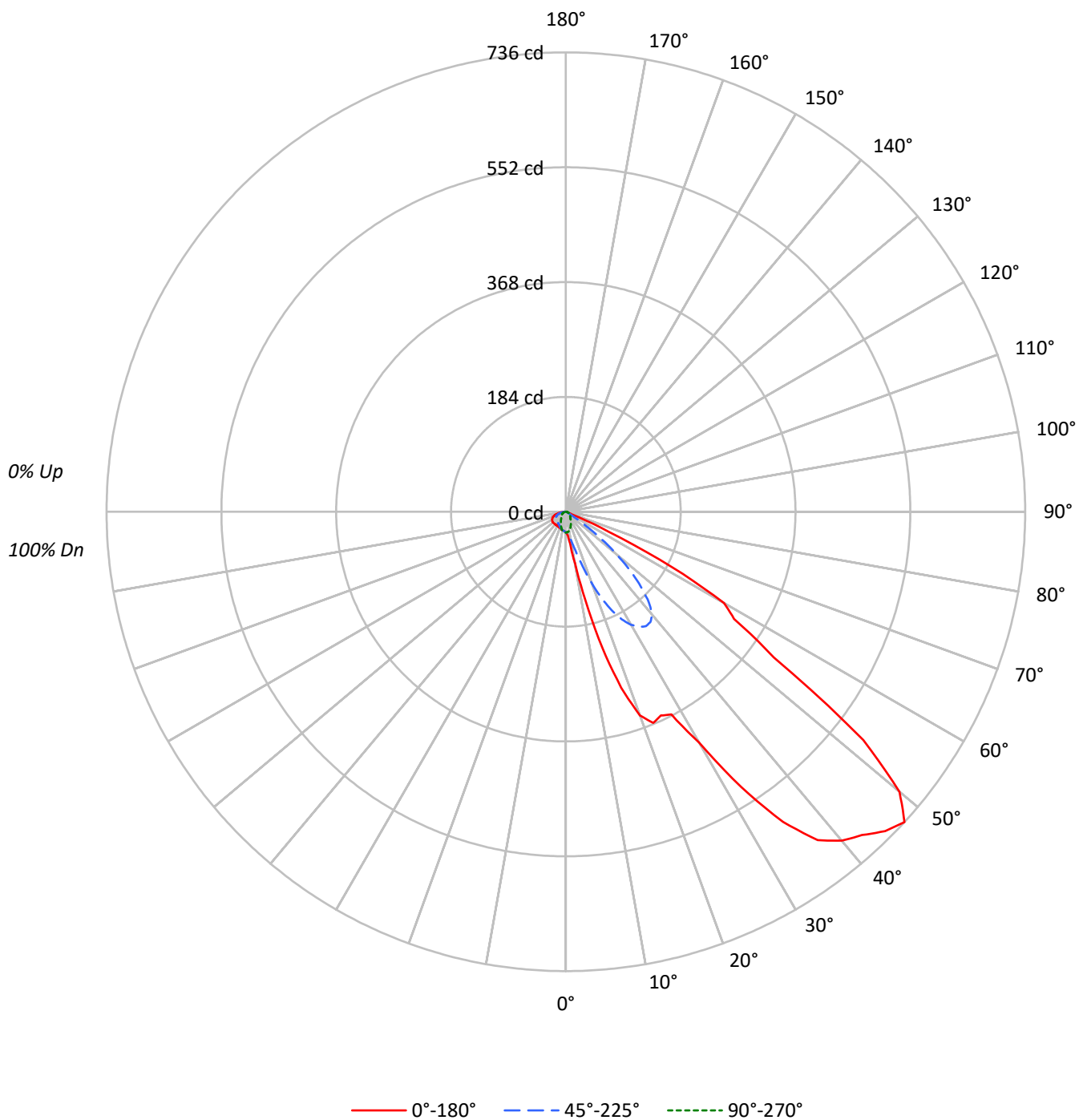
Lumens per Lamp: N/A
Luminaire Lumens: 415.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61			
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31			
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27			
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23			
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5683	5683	5683	5683	5683
5°	6760	6327	5636	5394	5325
10°	14550	7835	5386	5211	5264
15°	40260	12837	4850	4992	5171
20°	63652	22525	4197	4802	5058
25°	68448	33103	3611	4637	5112
30°	84975	41563	3142	4554	5270
35°	127514	47032	2712	4604	5571
40°	154654	48359	2428	4744	5890
45°	176191	41478	2363	5066	6454
50°	186989	28615	2411	5466	7207
55°	122146	11530	2372	5915	7957
60°	100750	1963	2342	6407	8783
65°	30401	1019	2201	6846	9658
70°	1259	1108	2165	7050	10474
75°	1198	1198	2129	7187	11445
80°	1091	1091	2182	7141	11703
85°	790	1383	2766	7114	11263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 187597 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.8
10°-20°	19.6	4.7
20°-30°	50.5	12.2
30°-40°	90.7	21.9
40°-50°	121.2	29.2
50°-60°	92.3	22.2
60°-70°	28.0	6.8
70°-80°	6.7	1.6
80°-90°	2.4	0.6
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°	73.6	17.7
0°-40°	164.3	39.6
0°-60°	377.9	91.0
0°-90°	415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	415.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	39	37	33	31	31	5
15°	226	72	27	28	29	66
25°	360	174	19	24	27	172
35°	606	224	13	22	26	372
45°	723	170	10	21	26	553
55°	407	38	8	20	26	405
65°	75	2	5	17	24	103
75°	2	2	3	11	17	2
85°	0	1	1	4	6	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°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
2.5°	35.1	35.1	35.1	35.1	35.1	35.1	34.8	34.8	34.8	34.1	33.3
5°	39.1	39.4	39.1	39.1	38.4	38.4	37.6	37.6	36.6	34.4	32.6
7.5°	51.3	50.9	50.5	49.1	48.0	45.5	44.4	42.7	39.4	34.4	31.9
10°	83.2	81.0	79.6	76.4	69.5	65.2	59.5	53.8	44.8	34.4	30.8
12.5°	144.5	144.1	139.8	129.0	119.4	106.1	92.1	78.1	55.2	33.7	29.4
15°	225.8	222.6	216.5	204.0	186.8	166.0	140.9	116.1	72.0	32.6	27.2
17.5°	295.4	291.4	286.8	274.2	254.5	228.3	198.2	164.2	95.0	31.2	25.1
20°	347.3	344.8	340.9	330.9	312.2	288.6	254.9	213.6	122.9	29.4	22.9
22.5°	366.3	366.0	366.7	363.1	353.8	335.2	302.9	259.9	150.5	27.2	20.8
25°	360.2	359.9	364.5	369.2	371.4	363.8	339.1	297.2	174.2	25.5	19.0
27.5°	366.0	364.9	362.8	363.5	369.6	373.9	362.4	325.8	194.6	22.9	17.2
30°	427.3	421.2	411.5	395.0	382.8	381.8	376.7	348.4	209.0	20.4	15.8
32.5°	523.0	515.5	497.9	467.4	438.4	416.2	400.4	367.4	219.0	17.9	14.0
35°	606.5	601.1	580.7	550.6	509.0	467.4	438.7	395.4	223.7	15.8	12.9
37.5°	663.1	661.0	640.9	608.7	566.4	517.2	479.3	424.0	222.6	13.3	11.8
40°	687.9	681.4	664.6	637.3	594.7	550.6	510.4	442.3	215.1	10.8	10.8
42.5°	702.6	695.4	677.1	651.3	609.4	562.4	514.0	434.4	197.1	8.6	10.4
45°	723.4	715.8	691.8	664.2	621.9	567.4	500.0	406.5	170.3	6.5	9.7
47.5°	735.9	730.9	713.0	685.4	634.1	560.3	467.8	380.3	140.5	5.0	9.3
50°	697.9	692.9	679.6	660.6	626.2	536.2	439.5	338.0	106.8	3.9	9.0
52.5°	600.8	605.1	607.6	613.0	587.9	482.5	397.2	304.3	72.0	3.2	8.2
55°	406.8	413.3	420.5	442.0	471.4	429.4	352.7	263.1	38.4	3.2	7.9
57.5°	319.7	317.6	315.4	314.0	336.9	354.2	310.1	210.4	16.5	3.2	7.2
60°	292.5	286.0	281.7	282.8	294.3	287.5	245.5	137.3	5.7	3.2	6.8
62.5°	191.8	196.8	206.5	223.0	215.1	184.6	142.7	54.5	2.9	3.2	6.1
65°	74.6	72.0	74.6	79.2	68.5	50.9	31.9	9.7	2.5	2.9	5.4
67.5°	10.0	9.0	6.8	4.3	3.9	3.6	2.9	2.5	2.5	2.9	5.0
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.2	2.2	2.5	4.3
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.5	3.6
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	3.2
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.5
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	2.2
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.4	1.8
85°	0.4	0.7	0.4	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.4
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.1
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°	33.0	33.0	33.0	33.0
2.5°	32.6	31.9	31.9	31.9
5°	31.9	31.2	31.2	30.8
7.5°	30.8	30.5	30.5	30.5
10°	30.1	29.8	30.1	30.1
12.5°	28.7	29.0	29.4	29.4
15°	27.2	28.0	28.7	29.0
17.5°	25.8	27.2	28.0	28.3
20°	24.4	26.2	27.2	27.6
22.5°	23.3	25.1	26.5	27.2
25°	21.9	24.4	26.2	26.9
27.5°	20.4	23.3	25.5	26.5
30°	19.4	22.9	25.5	26.5
32.5°	18.3	22.2	25.1	26.2
35°	17.6	21.9	25.1	26.5
37.5°	16.8	21.5	25.1	26.2
40°	16.5	21.1	25.1	26.2
42.5°	16.1	21.1	25.1	26.5
45°	15.4	20.8	25.1	26.5
47.5°	15.1	20.8	25.1	26.5
50°	14.7	20.4	25.1	26.9
52.5°	14.3	20.1	25.1	26.9
55°	13.6	19.7	24.7	26.5
57.5°	13.3	19.4	24.4	25.8
60°	12.5	18.6	23.7	25.5
62.5°	11.8	17.9	22.9	24.4
65°	10.8	16.8	21.9	23.7
67.5°	9.7	15.4	20.8	22.6
70°	8.6	14.0	19.4	20.8
72.5°	7.5	12.5	17.9	19.0
75°	6.5	10.8	15.8	17.2
77.5°	5.4	9.3	13.3	14.3
80°	3.9	7.2	10.8	11.8
82.5°	3.2	5.4	7.9	8.6
85°	2.2	3.6	5.0	5.7
87.5°	1.1	1.8	2.5	2.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)