

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: P1327178

Luminaire Tested: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R65 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

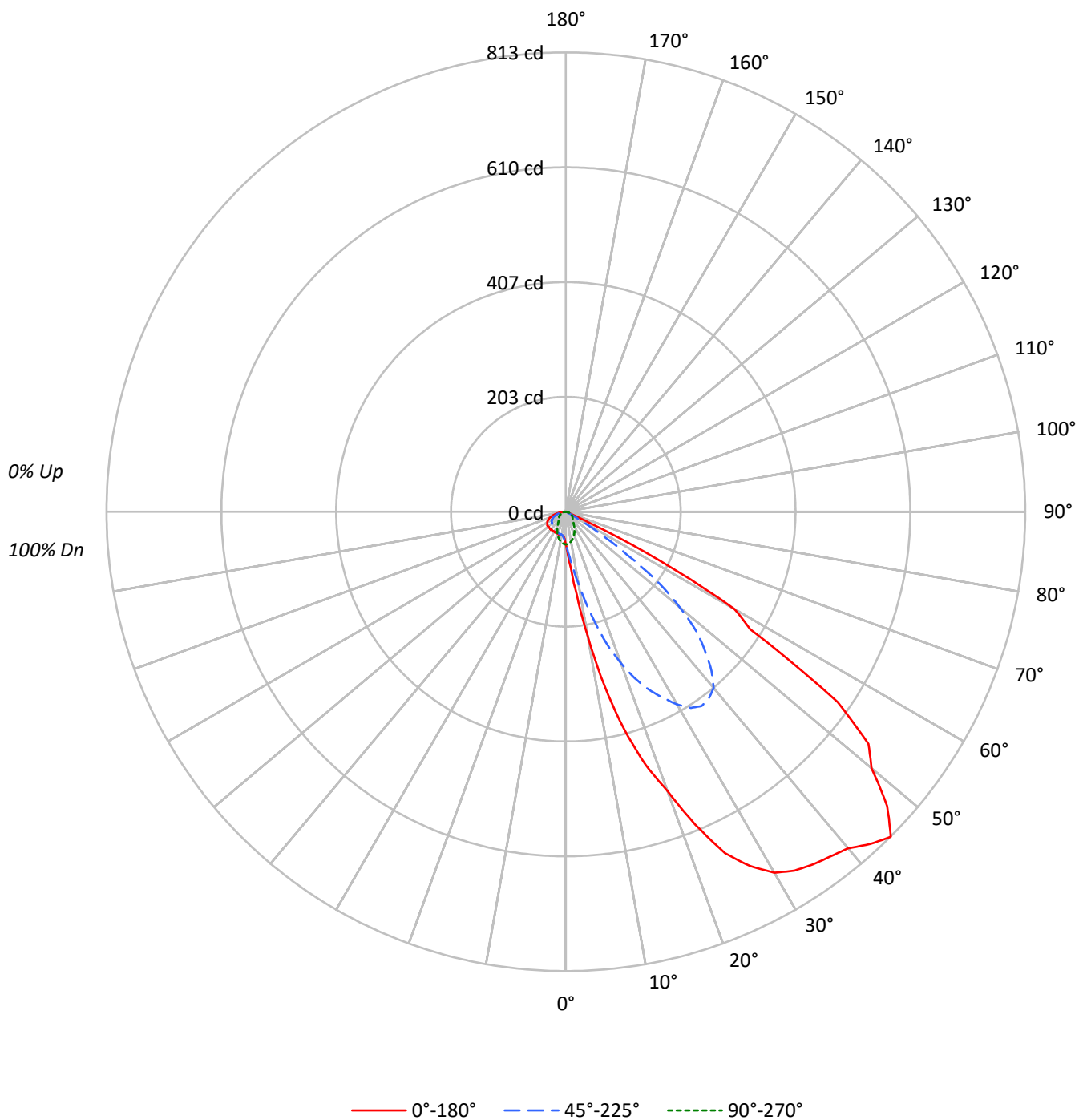
Lumens per Lamp: N/A
Luminaire Lumens: 590.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1327178

CATALOG NUMBER: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MMS_4000K

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	10
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	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9886	9886	9886	9886	9886
5°	17288	14107	9716	7883	7572
10°	39103	22752	9304	7240	7345
15°	71087	36605	8647	7275	7489
20°	96385	52252	7808	7258	7588
25°	126691	65996	6860	7088	7753
30°	146703	78234	5886	7060	8114
35°	160186	88177	4983	7211	8578
40°	174753	91502	4384	7576	9173
45°	198111	84856	4189	8062	9937
50°	189240	70841	4126	8547	10932
55°	176373	39785	4264	9248	12070
60°	118799	8542	4271	9782	13054
65°	18338	2160	4116	10106	14222
70°	2065	2065	3877	10423	15207
75°	1996	1996	3527	10247	15371
80°	1785	2380	3471	9422	15274
85°	1186	2371	3557	9287	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 198111 cd/sqm

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CATALOG NUMBER: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MMS_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	1.2
10°-20°	37.5	6.4
20°-30°	88.1	14.9
30°-40°	133.2	22.6
40°-50°	153.1	25.9
50°-60°	121.5	20.6
60°-70°	36.4	6.2
70°-80°	9.9	1.7
80°-90°	3.3	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°	132.6	22.5
0°-40°	265.8	45.0
0°-60°	540.4	91.6
0°-90°	590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	590.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	100	82	56	46	44	13
15°	399	205	48	41	42	115
25°	667	347	36	37	41	304
35°	762	419	24	34	41	478
45°	813	348	17	33	41	604
55°	587	132	14	31	40	484
65°	45	5	10	25	35	101
75°	3	3	5	15	23	3
85°	1	1	2	5	7	1
90°	0	0	0	0	0	

TEST NUMBER: P1327178

CATALOG NUMBER: LDSQA3D09R65W2N902765DE010 3LSQCA45R 1MMS_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2.5°	72.8	73.4	72.8	72.8	72.2	71.6	67.4	62.7	57.4	53.2	50.3
5°	100.0	100.6	98.8	98.8	97.6	95.8	81.6	68.0	56.2	49.7	45.6
7.5°	147.9	150.3	147.3	143.8	137.2	136.1	101.8	73.4	55.0	46.1	42.6
10°	223.6	221.8	218.9	211.8	200.5	195.2	130.1	78.7	53.2	43.8	41.4
12.5°	315.3	310.6	307.0	294.0	278.6	269.8	165.6	83.4	50.9	41.4	40.8
15°	398.7	395.2	386.9	374.5	355.5	348.4	205.3	86.4	48.5	39.6	40.8
17.5°	469.1	465.6	460.8	448.4	428.9	418.2	249.6	88.1	45.6	38.5	40.2
20°	525.9	523.5	517.0	507.0	487.5	477.4	285.1	88.1	42.6	37.3	39.6
22.5°	599.3	593.9	585.7	570.9	546.6	531.2	318.9	86.4	39.6	36.1	38.5
25°	666.7	663.2	652.5	634.8	608.7	593.3	347.3	82.8	36.1	34.3	37.3
27.5°	706.9	704.6	694.5	676.2	647.2	635.3	370.9	77.5	32.5	32.5	36.7
30°	737.7	733.0	722.9	705.2	675.6	661.4	393.4	71.0	29.6	30.8	35.5
32.5°	753.1	751.3	742.4	727.0	698.1	682.1	411.7	62.7	26.0	29.6	34.9
35°	761.9	760.2	753.1	738.3	711.1	695.7	419.4	55.0	23.7	28.4	34.3
37.5°	769.0	767.3	758.4	743.6	716.4	700.4	415.9	46.7	21.3	27.2	33.7
40°	777.3	770.8	757.2	742.4	717.6	702.2	407.0	39.0	19.5	26.6	33.7
42.5°	797.4	775.0	753.7	740.1	716.4	698.6	381.6	30.8	17.7	25.4	33.1
45°	813.4	773.8	746.6	735.9	711.7	691.5	348.4	22.5	17.2	24.8	33.1
47.5°	771.4	747.2	734.7	728.8	702.8	680.9	314.1	15.4	16.6	24.3	32.5
50°	706.3	703.4	698.6	699.2	675.6	657.8	264.4	10.6	15.4	23.7	31.9
52.5°	675.0	671.4	663.2	657.2	633.6	618.2	209.4	8.3	14.8	23.1	31.4
55°	587.4	589.8	580.9	584.5	577.4	569.7	132.5	7.7	14.2	21.9	30.8
57.5°	386.9	398.7	419.4	444.3	466.8	482.1	71.6	7.7	13.0	21.3	29.6
60°	344.9	341.9	341.3	346.1	356.1	364.4	24.8	7.1	12.4	19.5	28.4
62.5°	188.7	187.5	205.3	235.4	253.2	255.0	7.1	7.1	11.2	18.3	26.6
65°	45.0	46.7	52.1	65.1	76.9	84.6	5.3	6.5	10.1	17.2	24.8
67.5°	7.1	7.7	7.7	9.5	10.6	10.6	4.7	5.9	8.9	15.4	23.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.3	7.7	13.6	20.7
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.1	4.7	6.5	11.8	17.7
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.1	5.3	9.5	15.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.5	4.7	7.7	12.4
80°	1.8	1.8	1.8	1.8	1.8	1.8	2.4	3.0	3.5	5.9	9.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.0	4.7	7.1
85°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.8	1.8	3.0	4.7
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.8	2.4
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):

	157.5°	180°
0°	57.4	57.4
2.5°	48.5	47.9
5°	43.8	43.8
7.5°	42.0	42.0
10°	41.4	42.0
12.5°	41.4	42.0
15°	41.4	42.0
17.5°	41.4	42.0
20°	40.8	41.4
22.5°	40.2	40.8
25°	39.6	40.8
27.5°	39.0	40.8
30°	39.0	40.8
32.5°	39.0	40.8
35°	38.5	40.8
37.5°	38.5	40.8
40°	38.5	40.8
42.5°	38.5	40.8
45°	38.5	40.8
47.5°	38.5	40.8
50°	38.5	40.8
52.5°	37.9	40.8
55°	37.9	40.2
57.5°	36.7	39.0
60°	35.5	37.9
62.5°	34.3	36.7
65°	32.5	34.9
67.5°	30.8	32.5
70°	27.8	30.2
72.5°	24.8	26.6
75°	21.3	23.1
77.5°	17.7	19.5
80°	14.2	15.4
82.5°	10.1	11.2
85°	6.5	7.1
87.5°	3.0	3.0
90°	0.0	0.0

(END OF REPORT)