

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: P1327289

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902765DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

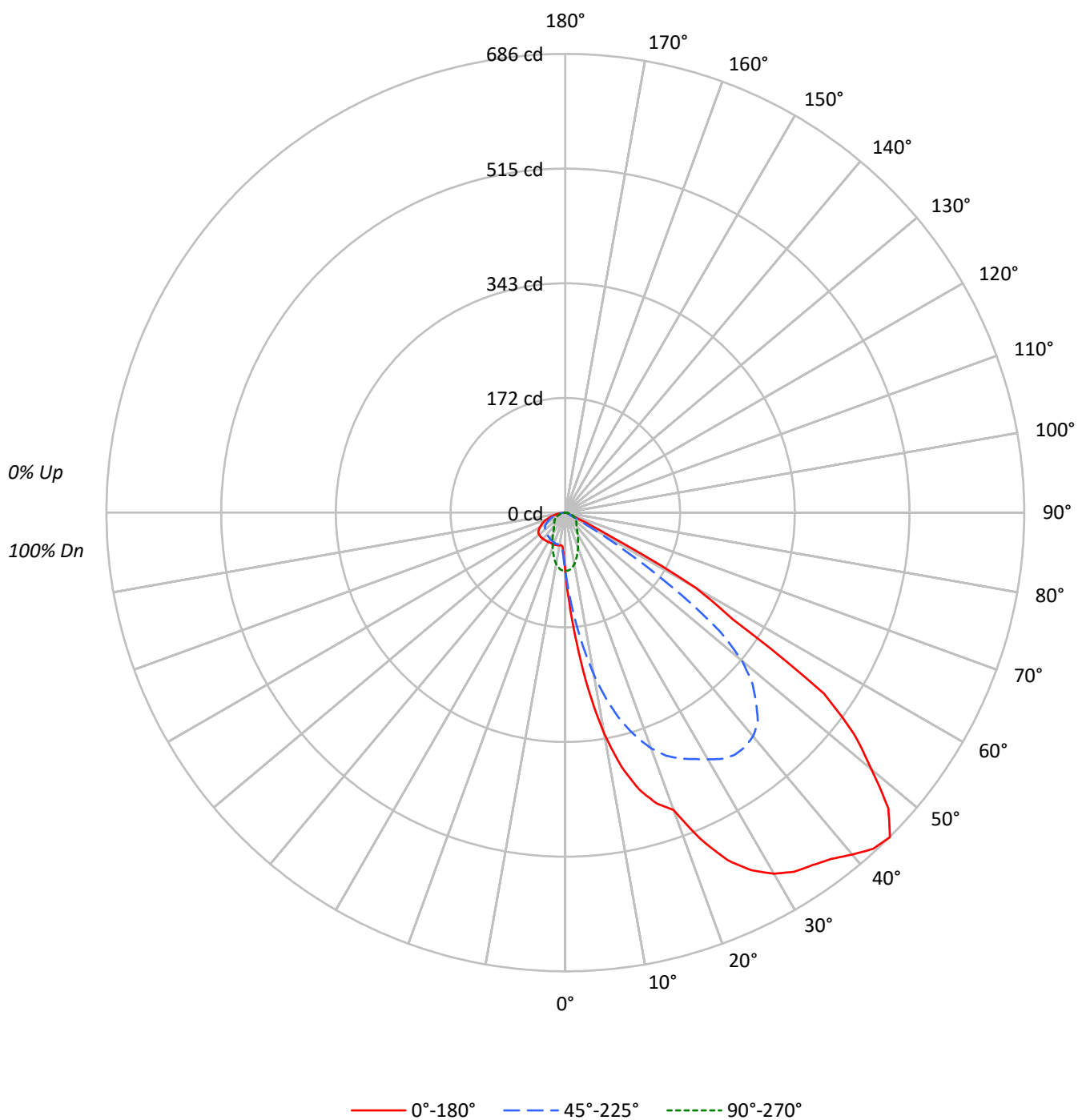
Lumens per Lamp: N/A
Luminaire Lumens: 593.0 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14880	14880	14880	14880	14880
5°	33850	27108	14729	9301	8696
10°	58672	43038	13658	8482	8692
15°	76579	57483	11928	8647	8968
20°	86744	68747	10190	8779	9329
25°	108942	77132	8551	8874	9558
30°	124013	84717	7298	9068	10122
35°	135335	92928	6349	9209	10701
40°	150045	98157	5845	9577	11578
45°	167155	98276	5772	10083	12543
50°	160115	92409	5707	10610	13638
55°	141753	59872	5855	11200	14743
60°	77638	12848	5924	11401	15293
65°	5542	3138	5787	11329	15445
70°	2669	2971	5338	10726	14905
75°	2329	3127	5124	10247	13774
80°	2380	2975	4661	9422	12893
85°	2371	3557	4742	8102	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 167155 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	1.9
10°-20°	48.2	8.1
20°-30°	92.5	15.6
30°-40°	130.8	22.1
40°-50°	147.9	24.9
50°-60°	117.1	19.8
60°-70°	31.6	5.3
70°-80°	10.5	1.8
80°-90°	3.2	0.5
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°	151.9	25.6
0°-40°	282.7	47.7
0°-60°	547.7	92.4
0°-90°	593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	593.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	196	157	85	54	50	23
15°	430	322	67	48	50	121
25°	573	406	45	47	50	263
35°	644	442	30	44	51	405
45°	686	404	24	41	52	513
55°	472	199	20	37	49	383
65°	14	8	14	28	38	49
75°	4	5	8	15	21	4
85°	1	2	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2.5°	134.3	134.3	133.7	131.3	130.2	127.2	124.8	118.3	102.4	87.0	74.5
5°	195.8	198.8	194.6	194.1	190.5	185.2	181.6	156.8	118.3	85.2	63.9
7.5°	268.6	269.8	268.6	262.7	257.4	248.5	240.2	201.2	134.3	82.2	56.2
10°	335.5	333.7	330.1	326.0	318.3	308.8	294.6	246.1	149.7	78.1	51.5
12.5°	389.9	389.3	385.2	381.0	371.5	359.1	344.9	286.9	162.7	72.8	49.1
15°	429.5	429.5	425.4	420.7	411.8	401.7	385.7	322.4	173.3	66.9	46.7
17.5°	456.2	455.0	452.0	448.5	441.4	431.3	418.9	350.8	180.4	60.9	46.1
20°	473.3	472.7	470.4	465.0	459.1	451.4	440.2	375.1	183.4	55.6	45.6
22.5°	528.3	523.6	514.7	503.5	489.3	470.9	455.6	393.4	182.2	49.7	44.4
25°	573.3	571.5	562.1	548.4	529.5	505.8	480.4	405.9	176.3	45.0	43.2
27.5°	602.9	599.9	591.0	576.3	556.1	533.1	509.4	415.3	168.0	40.8	41.4
30°	623.6	621.8	612.9	596.4	575.7	550.2	526.0	426.0	156.8	36.7	39.6
32.5°	636.6	634.8	626.0	611.2	591.0	564.4	536.6	436.6	143.2	33.1	37.9
35°	643.7	641.9	631.9	618.9	599.9	573.9	544.3	442.0	126.6	30.2	36.1
37.5°	652.6	649.0	635.4	619.4	600.5	576.3	546.7	441.4	110.0	27.8	34.9
40°	667.4	657.9	638.4	617.1	597.6	573.3	544.9	436.6	91.7	26.0	33.7
42.5°	681.6	668.0	639.0	613.5	591.6	568.0	538.4	426.0	71.6	24.8	33.1
45°	686.3	666.2	630.7	605.2	584.5	560.3	529.5	403.5	48.5	23.7	31.9
47.5°	654.9	640.2	610.6	591.6	572.1	548.4	516.5	379.8	27.8	22.5	30.8
50°	597.6	588.1	571.5	559.7	549.0	532.5	501.1	344.9	16.6	21.3	29.6
52.5°	544.3	541.3	529.5	520.0	514.1	506.4	478.0	291.1	13.6	20.7	28.4
55°	472.1	462.7	459.7	456.2	468.6	468.0	429.5	199.4	13.0	19.5	27.2
57.5°	296.4	300.6	315.9	344.3	378.1	397.6	396.4	106.5	12.4	18.3	25.4
60°	225.4	224.8	229.6	241.4	266.2	294.0	320.1	37.3	11.8	17.2	24.3
62.5°	67.4	69.2	83.4	122.5	146.7	181.0	165.1	8.9	11.2	15.4	21.9
65°	13.6	14.2	14.2	16.0	19.5	29.6	36.1	7.7	10.6	14.2	20.1
67.5°	5.9	5.9	5.9	6.5	6.5	7.7	6.5	7.1	9.5	12.4	17.7
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.9	5.9	8.3	10.6	15.4
72.5°	4.1	4.1	4.1	4.7	4.7	4.7	4.7	5.3	7.1	8.9	13.0
75°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.7	5.9	7.7	10.6
77.5°	3.0	3.0	3.0	3.0	3.0	3.5	3.5	3.5	4.7	5.9	8.9
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.5	4.7	6.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	3.0	3.5	4.7
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	3.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.8
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):

	135°	157.5°	180°
0°	86.4	86.4	86.4
2.5°	65.7	62.1	60.3
5°	53.8	50.9	50.3
7.5°	49.7	49.1	49.1
10°	48.5	49.1	49.7
12.5°	48.5	49.7	50.3
15°	48.5	49.7	50.3
17.5°	48.5	49.7	50.3
20°	47.9	49.7	50.9
22.5°	47.3	49.7	50.3
25°	46.7	49.7	50.3
27.5°	46.1	49.1	50.3
30°	45.6	49.1	50.9
32.5°	44.4	49.1	50.9
35°	43.8	49.1	50.9
37.5°	43.2	49.1	51.5
40°	42.6	49.1	51.5
42.5°	42.0	49.1	51.5
45°	41.4	48.5	51.5
47.5°	40.2	48.5	51.5
50°	39.6	47.9	50.9
52.5°	38.5	47.3	50.9
55°	37.3	46.1	49.1
57.5°	35.5	44.4	46.7
60°	33.1	42.0	44.4
62.5°	30.2	39.0	40.8
65°	27.8	35.5	37.9
67.5°	24.3	31.4	33.7
70°	21.3	27.2	29.6
72.5°	18.3	23.1	25.4
75°	15.4	18.9	20.7
77.5°	11.8	15.4	16.6
80°	9.5	11.8	13.0
82.5°	6.5	8.3	8.9
85°	4.1	5.3	5.9
87.5°	1.8	2.4	2.4
90°	0.0	0.0	0.0

(END OF REPORT)