

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: P1320042

Luminaire Tested: LDSQA3D09R709840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320042
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: LDSQA3D09R709840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

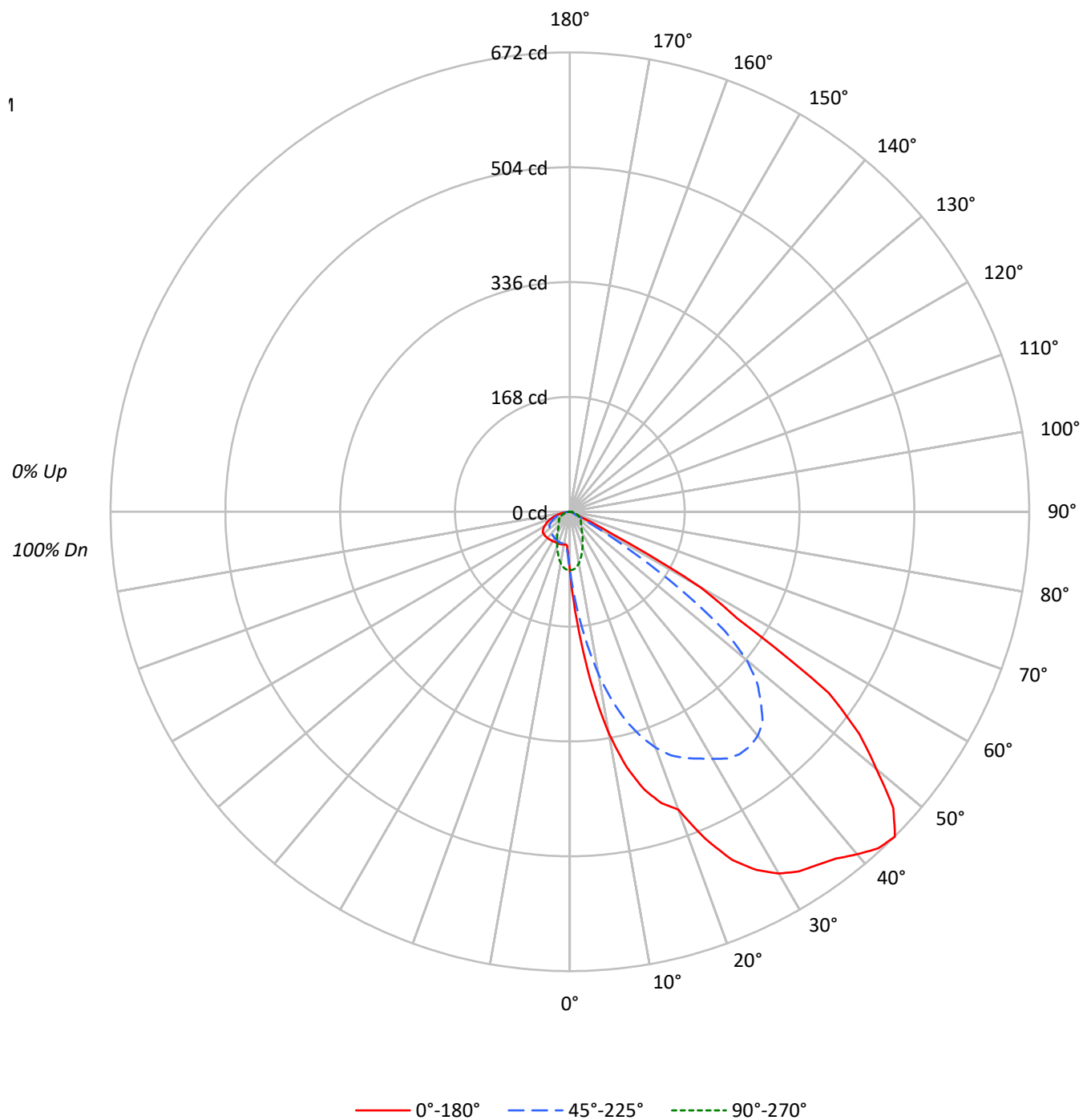
Lumens per Lamp: N/A
Luminaire Lumens: 581.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14570	14570	14570	14570	14570
5°	33176	26554	14436	9111	8523
10°	57483	42163	13378	8307	8517
15°	75028	56324	11679	8469	8790
20°	84985	67354	9989	8614	9145
25°	106738	75555	8380	8703	9368
30°	121507	83006	7139	8869	9923
35°	132602	91036	6223	9020	10491
40°	147010	96178	5733	9375	11331
45°	163769	96279	5651	9889	12275
50°	156874	90534	5600	10396	13370
55°	138901	58641	5735	10960	14443
60°	76088	12572	5787	11194	14983
65°	5420	3056	5664	11084	15119
70°	2618	2921	5237	10524	14603
75°	2329	3061	4991	10048	13508
80°	2281	2876	4562	9224	12695
85°	2371	3359	4545	8102	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 163769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	1.9
10°-20°	47.2	8.1
20°-30°	90.6	15.6
30°-40°	128.1	22.0
40°-50°	144.9	24.9
50°-60°	114.8	19.8
60°-70°	30.9	5.3
70°-80°	10.3	1.8
80°-90°	3.1	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°	148.8	25.6
0°-40°	277.0	47.7
0°-60°	536.6	92.4
0°-90°	581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	85	85	85	85	85	
5°	192	154	84	53	49	23
15°	421	316	66	48	49	119
25°	562	398	44	46	49	257
35°	631	433	30	43	50	397
45°	672	395	23	41	50	503
55°	463	195	19	36	48	375
65°	13	8	14	27	37	48
75°	4	5	8	15	20	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°	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
2.5°	131.6	131.6	131.0	128.7	127.5	124.6	122.3	115.9	100.3	85.2	73.0
5°	191.9	194.8	190.7	190.1	186.7	181.4	178.0	153.6	115.9	83.5	62.6
7.5°	263.2	264.3	263.2	257.4	252.2	243.5	235.3	197.1	131.6	80.6	55.1
10°	328.7	326.9	323.5	319.4	311.9	302.6	288.7	241.1	146.7	76.5	50.4
12.5°	382.0	381.4	377.4	373.3	364.0	351.9	337.9	281.1	159.4	71.3	48.1
15°	420.8	420.8	416.8	412.1	403.4	393.6	377.9	315.9	169.8	65.5	45.8
17.5°	446.9	445.8	442.9	439.4	432.4	422.6	410.4	343.7	176.8	59.7	45.2
20°	463.7	463.2	460.8	455.6	449.8	442.3	431.3	367.5	179.7	54.5	44.6
22.5°	517.6	513.0	504.3	493.3	479.4	461.4	446.3	385.5	178.5	48.7	43.5
25°	561.7	560.0	550.7	537.3	518.8	495.6	470.7	397.6	172.7	44.1	42.3
27.5°	590.7	587.8	579.1	564.6	544.9	522.3	499.1	406.9	164.6	40.0	40.6
30°	611.0	609.2	600.5	584.3	564.0	539.1	515.3	417.4	153.6	35.9	38.8
32.5°	623.7	622.0	613.3	598.8	579.1	553.0	525.8	427.8	140.3	32.5	37.1
35°	630.7	628.9	619.1	606.3	587.8	562.3	533.3	433.0	124.0	29.6	35.4
37.5°	639.4	635.9	622.6	606.9	588.4	564.6	535.6	432.4	107.8	27.2	34.2
40°	653.9	644.6	625.5	604.6	585.5	561.7	533.9	427.8	89.8	25.5	33.0
42.5°	667.8	654.4	626.0	601.1	579.7	556.5	527.5	417.4	70.1	24.3	32.5
45°	672.4	652.7	617.9	593.0	572.7	548.9	518.8	395.3	47.5	23.2	31.3
47.5°	641.7	627.2	598.2	579.7	560.5	537.3	506.0	372.1	27.2	22.0	30.1
50°	585.5	576.2	560.0	548.4	537.9	521.7	491.0	337.9	16.2	20.9	29.0
52.5°	533.3	530.4	518.8	509.5	503.7	496.2	468.4	285.2	13.3	20.3	27.8
55°	462.6	453.3	450.4	446.9	459.1	458.5	420.8	195.3	12.8	19.1	26.7
57.5°	290.4	294.5	309.5	337.4	370.4	389.5	388.4	104.3	12.2	18.0	24.9
60°	220.9	220.3	224.9	236.5	260.8	288.1	313.6	36.5	11.6	16.8	23.8
62.5°	66.1	67.8	81.7	120.0	143.8	177.4	161.7	8.7	11.0	15.1	21.4
65°	13.3	13.9	13.9	15.7	19.1	29.0	35.4	7.5	10.4	13.9	19.7
67.5°	5.8	5.8	5.8	6.4	6.4	7.5	6.4	7.0	9.3	12.2	17.4
70°	5.2	5.2	5.2	5.2	5.2	5.2	5.8	5.8	8.1	10.4	15.1
72.5°	4.1	4.1	4.1	4.6	4.6	4.6	4.6	5.2	7.0	8.7	12.8
75°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.6	5.8	7.5	10.4
77.5°	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5	4.6	5.8	8.7
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.5	4.6	6.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.9	3.5	4.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	2.3	2.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.7
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):

	135°	157.5°	180°
0°	84.6	84.6	84.6
2.5°	64.3	60.9	59.1
5°	52.7	49.9	49.3
7.5°	48.7	48.1	48.1
10°	47.5	48.1	48.7
12.5°	47.5	48.7	49.3
15°	47.5	48.7	49.3
17.5°	47.5	48.7	49.3
20°	47.0	48.7	49.9
22.5°	46.4	48.7	49.3
25°	45.8	48.7	49.3
27.5°	45.2	48.1	49.3
30°	44.6	48.1	49.9
32.5°	43.5	48.1	49.9
35°	42.9	48.1	49.9
37.5°	42.3	48.1	50.4
40°	41.7	48.1	50.4
42.5°	41.2	48.1	50.4
45°	40.6	47.5	50.4
47.5°	39.4	47.5	50.4
50°	38.8	47.0	49.9
52.5°	37.7	46.4	49.9
55°	36.5	45.2	48.1
57.5°	34.8	43.5	45.8
60°	32.5	41.2	43.5
62.5°	29.6	38.3	40.0
65°	27.2	34.8	37.1
67.5°	23.8	30.7	33.0
70°	20.9	26.7	29.0
72.5°	18.0	22.6	24.9
75°	15.1	18.5	20.3
77.5°	11.6	15.1	16.2
80°	9.3	11.6	12.8
82.5°	6.4	8.1	8.7
85°	4.1	5.2	5.8
87.5°	1.7	2.3	2.3
90°	0.0	0.0	0.0

(END OF REPORT)