

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: P1320011

Luminaire Tested: LDSQA3D09R509840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320011
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: LDSQA3D09R509840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

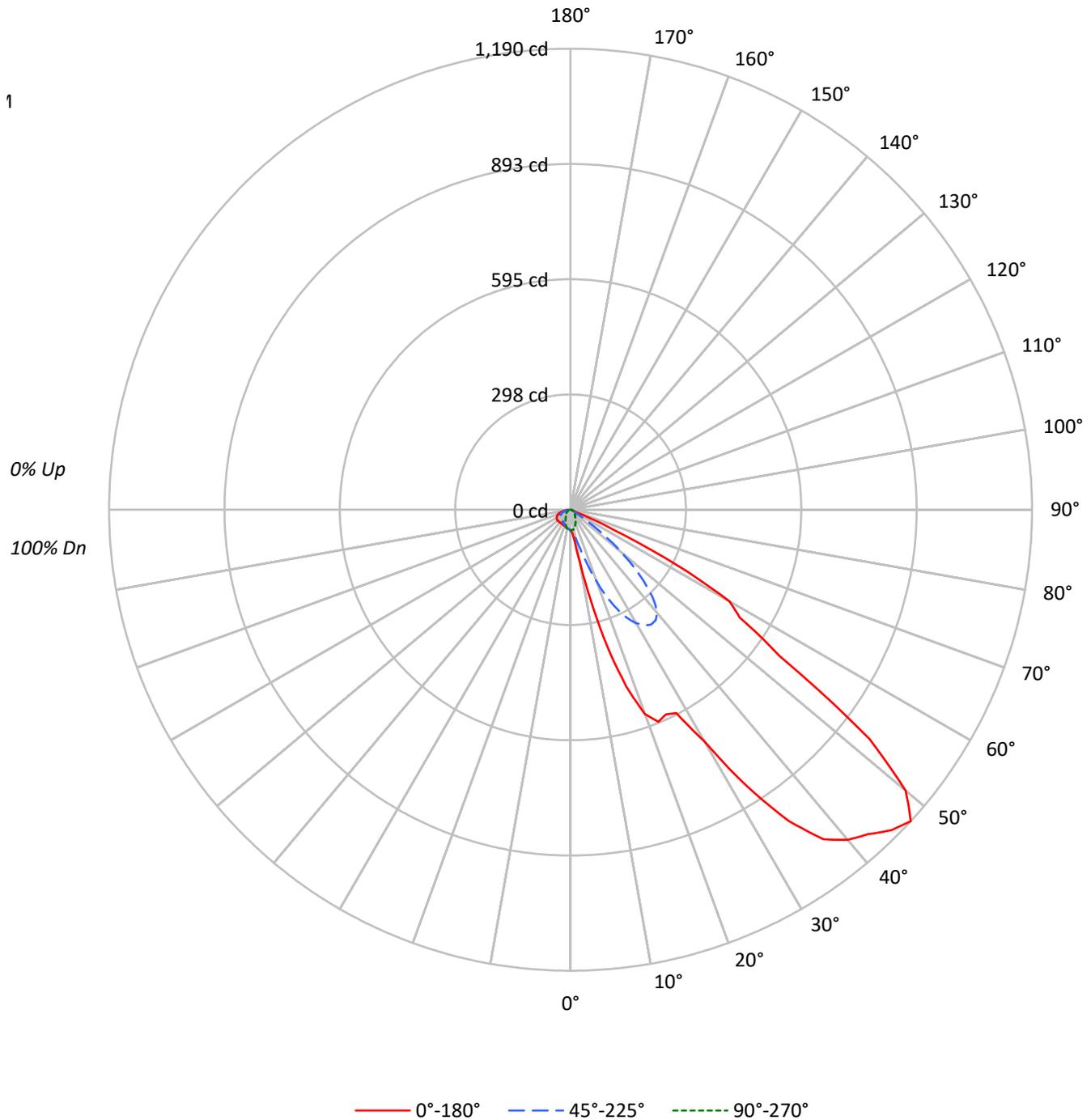
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 671.0 lumens
Efficiency: N/A
Efficacy: 61.0 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): 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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9179	9179	9179	9179	9179
5°	10926	10217	9111	8713	8609
10°	23521	12661	8709	8412	8517
15°	65097	20772	7845	8059	8362
20°	102928	36435	6800	7753	8174
25°	110691	53531	5834	7487	8266
30°	137376	67197	5071	7378	8531
35°	206166	76046	4394	7443	9020
40°	250046	78170	3912	7689	9510
45°	284867	67052	3800	8184	10449
50°	302333	46272	3885	8842	11655
55°	197512	18616	3843	9578	12881
60°	162888	3203	3789	10368	14157
65°	49146	1671	3545	11084	15608
70°	2065	1762	3525	11380	16919
75°	1930	1930	3460	11578	18499
80°	1686	1686	3471	11505	18943
85°	1186	2371	4545	11461	18377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 303331 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.8
10°-20°	31.8	4.7
20°-30°	81.7	12.2
30°-40°	146.7	21.9
40°-50°	196.0	29.2
50°-60°	149.3	22.2
60°-70°	45.3	6.8
70°-80°	10.8	1.6
80°-90°	3.9	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°	119.0	17.7
0°-40°	265.7	39.6
0°-60°	611.0	91.1
0°-90°	671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	671.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	63	59	53	50	50	8
15°	365	116	44	45	47	107
25°	582	282	31	39	44	278
35°	981	362	21	35	43	602
45°	1170	275	16	34	43	894
55°	658	62	13	32	43	654
65°	121	4	9	27	38	167
75°	3	3	5	17	28	3
85°	1	1	2	6	9	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°	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
2.5°	56.8	56.8	56.8	56.8	56.8	56.8	56.2	56.2	56.2	55.1	53.9
5°	63.2	63.8	63.2	63.2	62.0	62.0	60.9	60.9	59.1	55.6	52.7
7.5°	82.9	82.3	81.7	79.4	77.7	73.6	71.9	69.0	63.8	55.6	51.6
10°	134.5	131.0	128.7	123.4	112.4	105.5	96.2	86.9	72.4	55.6	49.8
12.5°	233.6	233.0	226.0	208.6	193.0	171.6	148.9	126.3	89.3	54.5	47.5
15°	365.1	359.9	350.1	329.8	302.0	268.3	227.8	187.8	116.5	52.7	44.0
17.5°	477.6	471.2	463.7	443.4	411.5	369.2	320.5	265.4	153.6	50.4	40.6
20°	561.6	557.5	551.2	534.9	504.8	466.6	412.1	345.4	198.8	47.5	37.1
22.5°	592.3	591.7	592.9	587.1	572.0	541.9	489.7	420.2	243.4	44.0	33.6
25°	582.5	581.9	589.4	597.0	600.4	588.3	548.3	480.5	281.7	41.1	30.7
27.5°	591.7	590.0	586.5	587.7	597.5	604.5	585.9	526.8	314.7	37.1	27.8
30°	690.8	681.0	665.3	638.7	619.0	617.2	609.1	563.3	337.9	33.0	25.5
32.5°	845.6	833.4	805.0	755.8	708.8	672.9	647.4	594.1	354.1	29.0	22.6
35°	980.6	971.9	938.9	890.2	823.0	755.8	709.4	639.3	361.7	25.5	20.9
37.5°	1072.2	1068.7	1036.3	984.1	915.7	836.3	774.9	685.6	359.9	21.4	19.1
40°	1112.2	1101.8	1074.5	1030.5	961.5	890.2	825.3	715.2	347.7	17.4	17.4
42.5°	1136.0	1124.4	1094.8	1053.1	985.3	909.3	831.1	702.4	318.8	13.9	16.8
45°	1169.6	1157.4	1118.6	1073.9	1005.6	917.5	808.5	657.2	275.3	10.4	15.6
47.5°	1189.9	1181.7	1152.8	1108.1	1025.3	905.9	756.3	614.9	227.2	8.1	15.1
50°	1128.4	1120.3	1098.9	1068.1	1012.5	867.0	710.6	546.5	172.7	6.4	14.5
52.5°	971.4	978.3	982.4	991.1	950.5	780.1	642.2	492.1	116.5	5.2	13.3
55°	657.8	668.2	679.8	714.6	762.1	694.3	570.3	425.4	62.0	5.2	12.8
57.5°	517.0	513.5	510.0	507.7	544.8	572.6	501.3	340.2	26.7	5.2	11.6
60°	472.9	462.5	455.5	457.3	475.8	464.8	397.0	222.0	9.3	5.2	11.0
62.5°	310.1	318.2	333.8	360.5	347.7	298.5	230.7	88.1	4.6	5.2	9.9
65°	120.6	116.5	120.6	128.1	110.7	82.3	51.6	15.6	4.1	4.6	8.7
67.5°	16.2	14.5	11.0	7.0	6.4	5.8	4.6	4.1	4.1	4.6	8.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.5	3.5	4.1	7.0
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.1	5.8
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	5.2
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	4.1
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	3.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	2.3	2.9
85°	0.6	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.7	2.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7	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):

	112.5°	135°	157.5°	180°
0°	53.3	53.3	53.3	53.3
2.5°	52.7	51.6	51.6	51.6
5°	51.6	50.4	50.4	49.8
7.5°	49.8	49.3	49.3	49.3
10°	48.7	48.1	48.7	48.7
12.5°	46.4	46.9	47.5	47.5
15°	44.0	45.2	46.4	46.9
17.5°	41.7	44.0	45.2	45.8
20°	39.4	42.3	44.0	44.6
22.5°	37.7	40.6	42.9	44.0
25°	35.4	39.4	42.3	43.5
27.5°	33.0	37.7	41.1	42.9
30°	31.3	37.1	41.1	42.9
32.5°	29.6	35.9	40.6	42.3
35°	28.4	35.4	40.6	42.9
37.5°	27.2	34.8	40.6	42.3
40°	26.7	34.2	40.6	42.3
42.5°	26.1	34.2	40.6	42.9
45°	24.9	33.6	40.6	42.9
47.5°	24.3	33.6	40.6	42.9
50°	23.8	33.0	40.6	43.5
52.5°	23.2	32.5	40.6	43.5
55°	22.0	31.9	40.0	42.9
57.5°	21.4	31.3	39.4	41.7
60°	20.3	30.1	38.3	41.1
62.5°	19.1	29.0	37.1	39.4
65°	17.4	27.2	35.4	38.3
67.5°	15.6	24.9	33.6	36.5
70°	13.9	22.6	31.3	33.6
72.5°	12.2	20.3	29.0	30.7
75°	10.4	17.4	25.5	27.8
77.5°	8.7	15.1	21.4	23.2
80°	6.4	11.6	17.4	19.1
82.5°	5.2	8.7	12.8	13.9
85°	3.5	5.8	8.1	9.3
87.5°	1.7	2.9	4.1	4.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)