

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: P1319750

Luminaire Tested: LDSQA3D02R709840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319750
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: LDSQA3D02R709840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

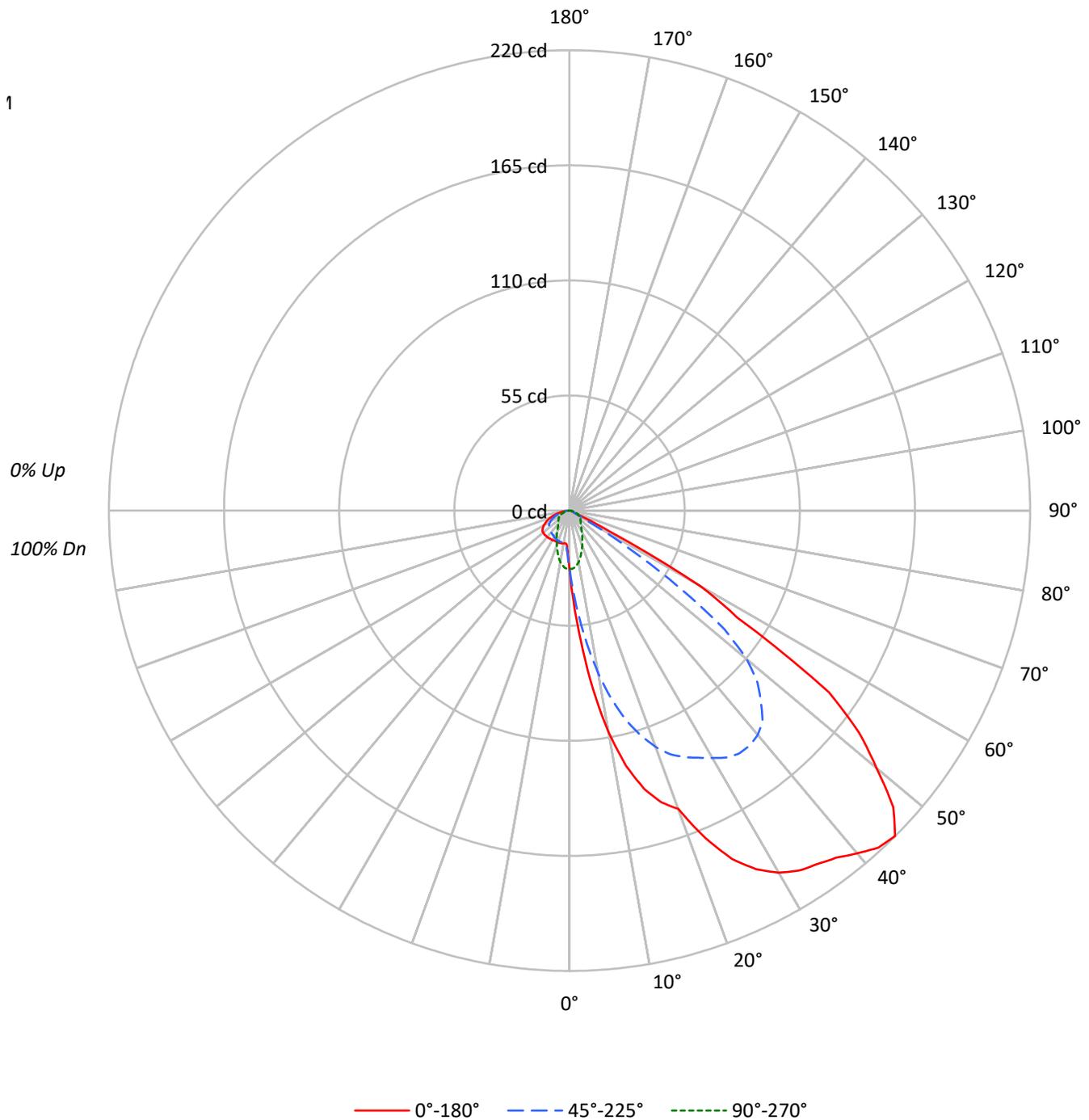
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 190.0 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): 3.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P1319750
CATALOG NUMBER: LDSQA3D02R709840DE010 3LSQCA45R 1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4771	4771	4771	4771	4771
5°	10840	8679	4720	2991	2783
10°	18800	13798	4372	2711	2781
15°	24534	18418	3816	2764	2871
20°	27803	22030	3262	2822	2987
25°	34908	24703	2736	2850	3059
30°	39733	27145	2347	2903	3242
35°	43353	29771	2039	2943	3427
40°	48067	31452	1866	3058	3710
45°	53559	31492	1851	3239	4019
50°	51309	29606	1822	3403	4367
55°	45429	19187	1892	3573	4714
60°	24869	4099	1894	3651	4891
65°	1793	1019	1834	3627	4931
70°	856	957	1712	3424	4784
75°	732	998	1664	3261	4392
80°	793	893	1488	2975	4166
85°	790	1186	1581	2569	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 53559 cd/sqm



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CATALOG NUMBER: LDSQA3D02R709840DE010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	1.9
10°-20°	15.4	8.1
20°-30°	29.6	15.6
30°-40°	41.9	22.0
40°-50°	47.4	24.9
50°-60°	37.5	19.8
60°-70°	10.1	5.3
70°-80°	3.4	1.8
80°-90°	1.0	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°	48.7	25.6
0°-40°	90.6	47.7
0°-60°	175.5	92.4
0°-90°	190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	63	50	27	17	16	7
15°	138	103	21	16	16	39
25°	184	130	14	15	16	84
35°	206	142	10	14	16	130
45°	220	129	8	13	16	165
55°	151	64	6	12	16	123
65°	4	2	4	9	12	16
75°	1	2	2	5	7	1
85°	0	1	1	1	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1319750

CATALOG NUMBER: LDSQA3D02R709840DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	43.0	43.0	42.8	42.1	41.7	40.8	40.0	37.9	32.8	27.9	23.9
5°	62.7	63.7	62.4	62.2	61.0	59.3	58.2	50.2	37.9	27.3	20.5
7.5°	86.1	86.4	86.1	84.2	82.5	79.6	77.0	64.5	43.0	26.3	18.0
10°	107.5	106.9	105.8	104.4	102.0	99.0	94.4	78.9	48.0	25.0	16.5
12.5°	124.9	124.7	123.4	122.1	119.0	115.1	110.5	91.9	52.1	23.3	15.7
15°	137.6	137.6	136.3	134.8	131.9	128.7	123.6	103.3	55.5	21.4	15.0
17.5°	146.2	145.8	144.8	143.7	141.4	138.2	134.2	112.4	57.8	19.5	14.8
20°	151.7	151.5	150.7	149.0	147.1	144.6	141.0	120.2	58.8	17.8	14.6
22.5°	169.3	167.8	164.9	161.3	156.8	150.9	146.0	126.1	58.4	15.9	14.2
25°	183.7	183.1	180.1	175.7	169.7	162.1	153.9	130.0	56.5	14.4	13.8
27.5°	193.2	192.2	189.4	184.6	178.2	170.8	163.2	133.1	53.8	13.1	13.3
30°	199.8	199.2	196.4	191.1	184.4	176.3	168.5	136.5	50.2	11.8	12.7
32.5°	204.0	203.4	200.6	195.8	189.4	180.8	171.9	139.9	45.9	10.6	12.1
35°	206.2	205.7	202.5	198.3	192.2	183.9	174.4	141.6	40.6	9.7	11.6
37.5°	209.1	208.0	203.6	198.5	192.4	184.6	175.2	141.4	35.3	8.9	11.2
40°	213.8	210.8	204.5	197.7	191.5	183.7	174.6	139.9	29.4	8.3	10.8
42.5°	218.4	214.0	204.7	196.6	189.6	182.0	172.5	136.5	22.9	8.0	10.6
45°	219.9	213.4	202.1	193.9	187.3	179.5	169.7	129.3	15.5	7.6	10.2
47.5°	209.8	205.1	195.6	189.6	183.3	175.7	165.5	121.7	8.9	7.2	9.9
50°	191.5	188.4	183.1	179.3	175.9	170.6	160.6	110.5	5.3	6.8	9.5
52.5°	174.4	173.5	169.7	166.6	164.7	162.3	153.2	93.3	4.4	6.6	9.1
55°	151.3	148.2	147.3	146.2	150.1	149.9	137.6	63.9	4.2	6.3	8.7
57.5°	95.0	96.3	101.2	110.3	121.1	127.4	127.0	34.1	4.0	5.9	8.2
60°	72.2	72.0	73.6	77.3	85.3	94.2	102.6	11.9	3.8	5.5	7.8
62.5°	21.6	22.2	26.7	39.2	47.0	58.0	52.9	2.8	3.6	4.9	7.0
65°	4.4	4.5	4.5	5.1	6.3	9.5	11.6	2.5	3.4	4.5	6.4
67.5°	1.9	1.9	1.9	2.1	2.1	2.5	2.1	2.3	3.0	4.0	5.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.9	1.9	2.7	3.4	4.9
72.5°	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.7	2.3	2.8	4.2
75°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.9	2.5	3.4
77.5°	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.5	1.9	2.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.1	1.5	2.1
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.9	1.1	1.5
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6
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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 CATALOG NUMBER: LDSQA3D02R709840DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	27.7	27.7	27.7
2.5°	21.0	19.9	19.3
5°	17.3	16.3	16.1
7.5°	15.9	15.7	15.7
10°	15.5	15.7	15.9
12.5°	15.5	15.9	16.1
15°	15.5	15.9	16.1
17.5°	15.5	15.9	16.1
20°	15.4	15.9	16.3
22.5°	15.2	15.9	16.1
25°	15.0	15.9	16.1
27.5°	14.8	15.7	16.1
30°	14.6	15.7	16.3
32.5°	14.2	15.7	16.3
35°	14.0	15.7	16.3
37.5°	13.8	15.7	16.5
40°	13.6	15.7	16.5
42.5°	13.5	15.7	16.5
45°	13.3	15.5	16.5
47.5°	12.9	15.5	16.5
50°	12.7	15.4	16.3
52.5°	12.3	15.2	16.3
55°	11.9	14.8	15.7
57.5°	11.4	14.2	15.0
60°	10.6	13.5	14.2
62.5°	9.7	12.5	13.1
65°	8.9	11.4	12.1
67.5°	7.8	10.0	10.8
70°	6.8	8.7	9.5
72.5°	5.9	7.4	8.2
75°	4.9	6.1	6.6
77.5°	3.8	4.9	5.3
80°	3.0	3.8	4.2
82.5°	2.1	2.7	2.8
85°	1.3	1.7	1.9
87.5°	0.6	0.8	0.8
90°	0.0	0.0	0.0

(END OF REPORT)