

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: P1320034

Luminaire Tested: LDSQA3D09R659840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320034
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: LDSQA3D09R659840DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

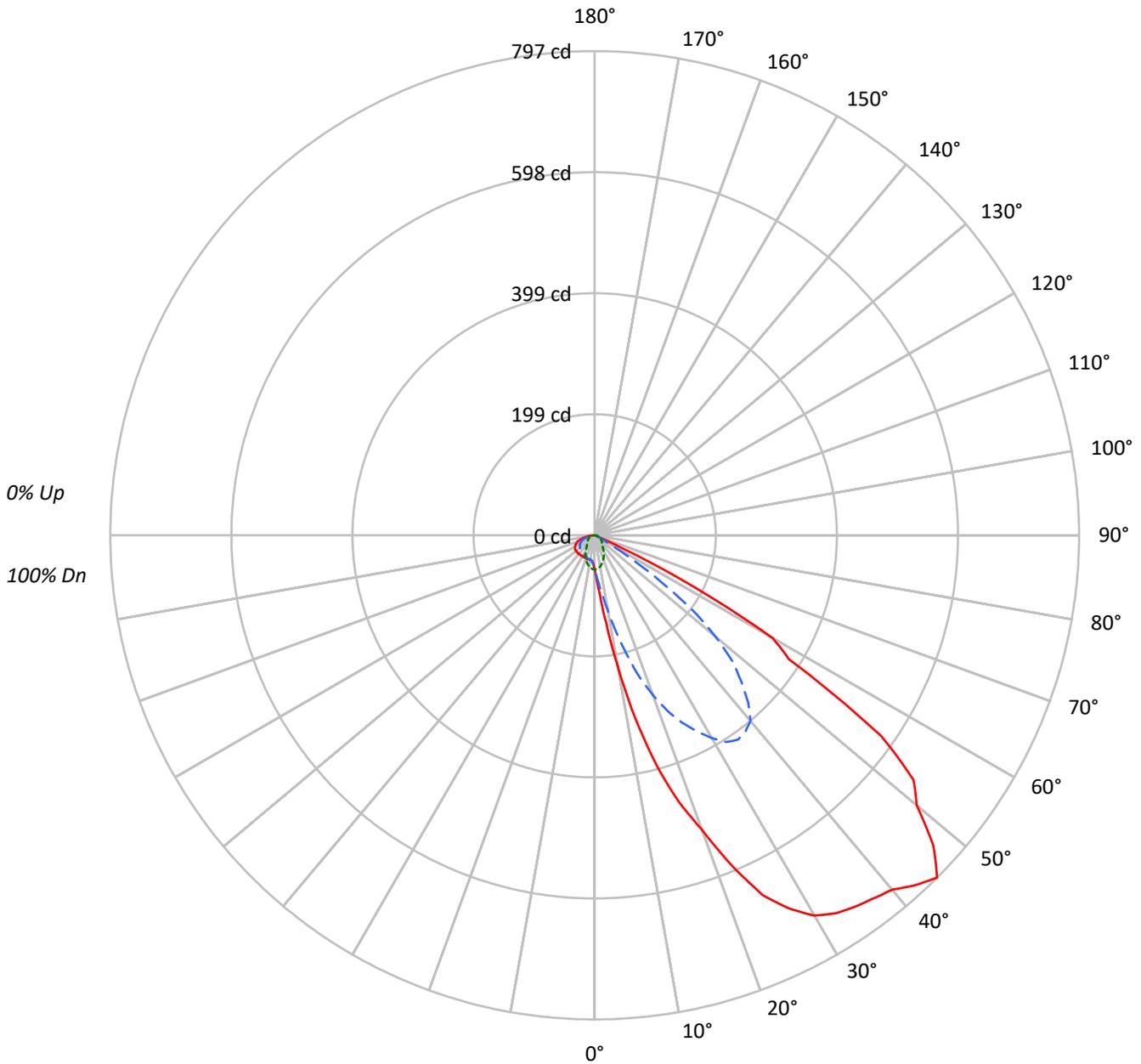
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 578.0 lumens
Efficiency: N/A
Efficacy: 52.5 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): 11
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: P1320034
CATALOG NUMBER: LDSQA3D09R659840DE010 3LSQCA45R 1MB

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P1320034

CATALOG NUMBER: LDSQA3D09R659840DE010 3LSQCA45R 1MB

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	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9679	9679	9679	9679	9679
5°	16925	13830	9526	7710	7417
10°	38316	22297	9129	7100	7188
15°	69643	35856	8469	7132	7328
20°	94424	51189	7643	7111	7441
25°	124106	64647	6727	6936	7601
30°	143720	76643	5767	6921	7955
35°	156927	86390	4878	7064	8410
40°	171201	89636	4294	7419	8993
45°	194093	83127	4092	7916	9742
50°	185408	69421	4046	8386	10717
55°	172800	38974	4174	9038	11830
60°	116388	8370	4202	9576	12779
65°	17931	2119	4034	9903	13937
70°	2065	2065	3777	10222	14905
75°	1930	1930	3460	10048	15038
80°	1686	2281	3471	9224	14976
85°	1186	2371	3359	9090	13832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 194093 cd/sqm



TEST NUMBER: P1320034

CATALOG NUMBER: LDSQA3D09R659840DE010 3LSQCA45R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	1.2
10°-20°	36.8	6.4
20°-30°	86.3	14.9
30°-40°	130.5	22.6
40°-50°	150.0	25.9
50°-60°	119.1	20.6
60°-70°	35.7	6.2
70°-80°	9.7	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°	129.9	22.5
0°-40°	260.4	45.0
0°-60°	529.4	91.6
0°-90°	578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	98	80	55	45	43	13
15°	391	201	48	40	41	112
25°	653	340	35	36	40	298
35°	746	411	23	34	40	468
45°	797	341	17	32	40	592
55°	576	130	14	30	39	474
65°	44	5	10	24	34	99
75°	3	3	5	15	23	3
85°	1	1	2	5	7	1
90°	0	0	0	0	0	



TEST NUMBER: P1320034

CATALOG NUMBER: LDSQA3D09R659840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	71.3	71.9	71.3	71.3	70.7	70.1	66.1	61.4	56.2	52.2	49.3
5°	97.9	98.5	96.8	96.8	95.6	93.9	80.0	66.6	55.1	48.7	44.6
7.5°	144.9	147.2	144.3	140.8	134.5	133.3	99.7	71.9	53.9	45.2	41.7
10°	219.1	217.3	214.4	207.5	196.5	191.2	127.5	77.1	52.2	42.9	40.6
12.5°	308.9	304.3	300.8	288.0	273.0	264.3	162.3	81.7	49.8	40.6	40.0
15°	390.6	387.1	379.0	366.8	348.3	341.3	201.1	84.6	47.5	38.8	40.0
17.5°	459.6	456.1	451.5	439.3	420.2	409.7	244.6	86.4	44.6	37.7	39.4
20°	515.2	512.9	506.5	496.7	477.5	467.7	279.3	86.4	41.7	36.5	38.8
22.5°	587.1	581.9	573.7	559.3	535.5	520.4	312.4	84.6	38.8	35.4	37.7
25°	653.1	649.7	639.2	621.8	596.3	581.3	340.2	81.1	35.4	33.6	36.5
27.5°	692.6	690.2	680.4	662.4	634.0	622.4	363.4	75.9	31.9	31.9	35.9
30°	722.7	718.1	708.2	690.8	661.8	647.9	385.4	69.5	29.0	30.1	34.8
32.5°	737.8	736.0	727.3	712.3	683.9	668.2	403.4	61.4	25.5	29.0	34.2
35°	746.4	744.7	737.8	723.3	696.6	681.5	410.9	53.9	23.2	27.8	33.6
37.5°	753.4	751.7	743.0	728.5	701.8	686.2	407.4	45.8	20.9	26.7	33.0
40°	761.5	755.1	741.8	727.3	703.0	687.9	398.7	38.2	19.1	26.1	33.0
42.5°	781.2	759.2	738.3	725.0	701.8	684.4	373.8	30.1	17.4	24.9	32.5
45°	796.9	758.0	731.4	720.9	697.2	677.5	341.3	22.0	16.8	24.3	32.5
47.5°	755.7	732.0	719.8	714.0	688.5	667.1	307.7	15.1	16.2	23.8	31.9
50°	692.0	689.1	684.4	685.0	661.8	644.4	259.1	10.4	15.1	23.2	31.3
52.5°	661.3	657.8	649.7	643.9	620.7	605.6	205.2	8.1	14.5	22.6	30.7
55°	575.5	577.8	569.1	572.6	565.6	558.1	129.8	7.5	13.9	21.4	30.1
57.5°	379.0	390.6	410.9	435.2	457.3	472.3	70.1	7.5	12.7	20.9	29.0
60°	337.9	335.0	334.4	339.0	348.9	357.0	24.3	7.0	12.2	19.1	27.8
62.5°	184.9	183.7	201.1	230.7	248.0	249.8	7.0	7.0	11.0	18.0	26.1
65°	44.0	45.8	51.0	63.7	75.3	82.9	5.2	6.4	9.9	16.8	24.3
67.5°	7.0	7.5	7.5	9.3	10.4	10.4	4.6	5.8	8.7	15.1	22.6
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.2	7.5	13.3	20.3
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.1	4.6	6.4	11.6	17.4
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.1	5.2	9.3	15.1
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.5	4.6	7.5	12.2
80°	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.9	3.5	5.8	9.3
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.7	2.3	2.9	4.6	7.0
85°	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.7	1.7	2.9	4.6
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.7	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1320034
CATALOG NUMBER: LDSQA3D09R659840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	56.2	56.2
2.5°	47.5	46.9
5°	42.9	42.9
7.5°	41.1	41.1
10°	40.6	41.1
12.5°	40.6	41.1
15°	40.6	41.1
17.5°	40.6	41.1
20°	40.0	40.6
22.5°	39.4	40.0
25°	38.8	40.0
27.5°	38.2	40.0
30°	38.2	40.0
32.5°	38.2	40.0
35°	37.7	40.0
37.5°	37.7	40.0
40°	37.7	40.0
42.5°	37.7	40.0
45°	37.7	40.0
47.5°	37.7	40.0
50°	37.7	40.0
52.5°	37.1	40.0
55°	37.1	39.4
57.5°	35.9	38.2
60°	34.8	37.1
62.5°	33.6	35.9
65°	31.9	34.2
67.5°	30.1	31.9
70°	27.2	29.6
72.5°	24.3	26.1
75°	20.9	22.6
77.5°	17.4	19.1
80°	13.9	15.1
82.5°	9.9	11.0
85°	6.4	7.0
87.5°	2.9	2.9
90°	0.0	0.0

(END OF REPORT)