

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: P1320180

Luminaire Tested: LDSQA3D13R659840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320180
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: LDSQA3D13R659840DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

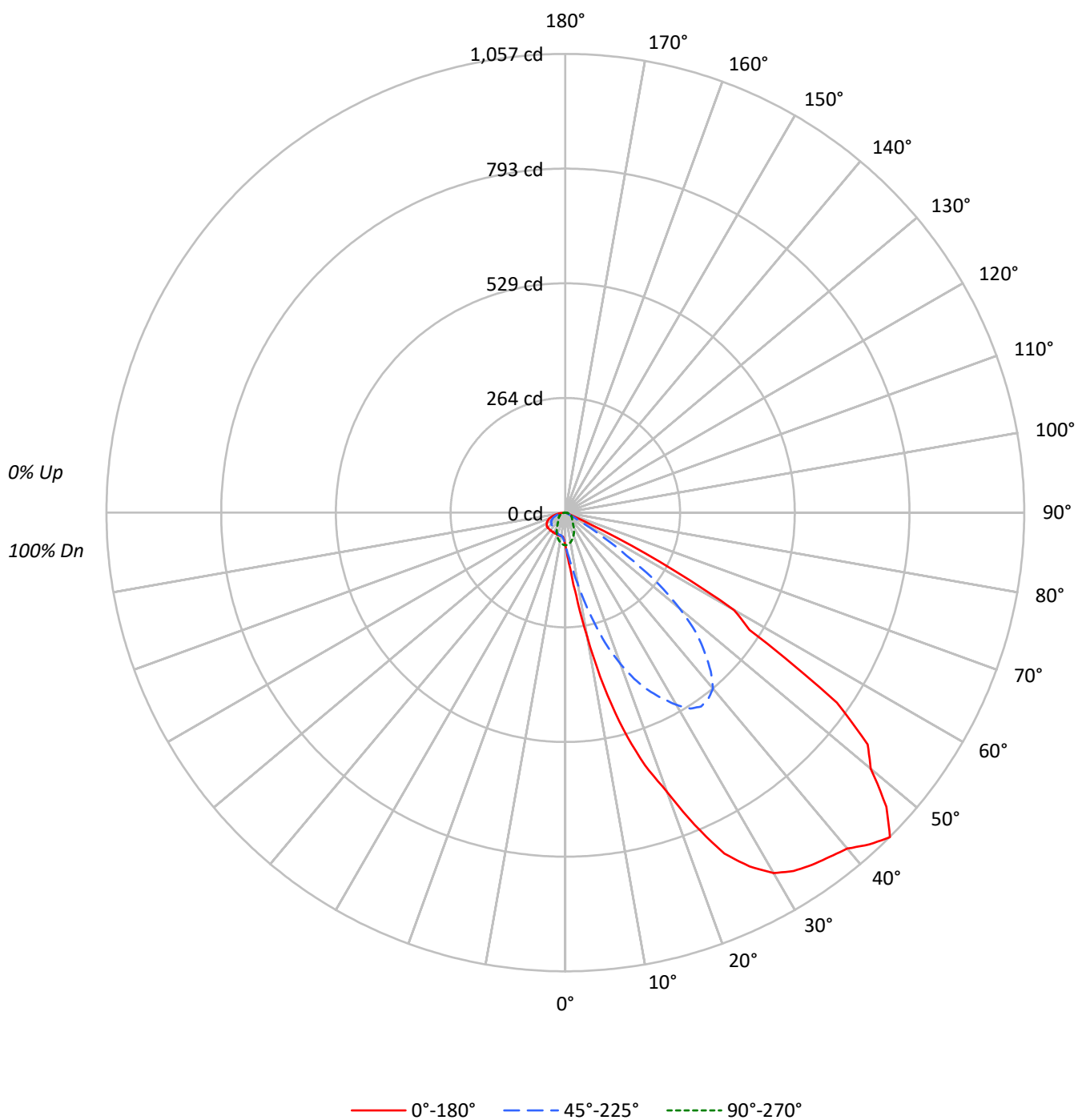
Lumens per Lamp: N/A
Luminaire Lumens: 767.0 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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

TEST NUMBER: P1320180

CATALOG NUMBER: LDSQA3D13R659840DE010 3LSQCA45R 1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1320180

CATALOG NUMBER: LDSQA3D13R659840DE010 3LSQCA45R 1MB

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12848	12848	12848	12848	12848
5°	22474	18343	12638	10235	9837
10°	50837	29590	12102	9409	9548
15°	92412	47588	11251	9468	9735
20°	125305	67940	10153	9439	9860
25°	164696	85778	8912	9197	10090
30°	190712	101700	7656	9168	10560
35°	208248	114647	6476	9377	11164
40°	227181	118953	5710	9847	11938
45°	257540	110332	5431	10497	12933
50°	246014	92115	5359	11119	14227
55°	229309	51735	5555	12010	15704
60°	154449	11126	5546	12710	16947
65°	23799	2812	5338	13163	18501
70°	2719	2719	5035	13545	19739
75°	2529	2529	4591	13308	19963
80°	2281	3075	4562	12199	19836
85°	1581	2964	4545	12251	18180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 257540 cd/sqm

TEST NUMBER: P1320180

CATALOG NUMBER: LDSQA3D13R659840DE010 3LSQCA45R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	1.2
10°-20°	48.8	6.4
20°-30°	114.6	14.9
30°-40°	173.1	22.6
40°-50°	199.0	25.9
50°-60°	158.0	20.6
60°-70°	47.3	6.2
70°-80°	12.9	1.7
80°-90°	4.3	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°	172.4	22.5
0°-40°	345.5	45.0
0°-60°	702.5	91.6
0°-90°	767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	130	106	73	59	57	17
15°	518	267	63	53	55	149
25°	867	451	47	48	53	396
35°	990	545	31	45	53	622
45°	1057	453	22	43	53	785
55°	764	172	18	40	52	629
65°	58	7	13	32	45	131
75°	4	4	7	20	30	4
85°	1	2	2	6	9	1
90°	0	0	0	0	0	

TEST NUMBER: P1320180

CATALOG NUMBER: LDSQA3D13R659840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
2.5°	94.6	95.4	94.6	94.6	93.8	93.1	87.7	81.5	74.6	69.2	65.4
5°	130.0	130.7	128.4	128.4	126.9	124.6	106.1	88.4	73.1	64.6	59.2
7.5°	192.3	195.3	191.5	186.9	178.4	176.9	132.3	95.4	71.5	60.0	55.4
10°	290.7	288.4	284.5	275.3	260.7	253.8	169.2	102.3	69.2	56.9	53.8
12.5°	409.9	403.7	399.1	382.2	362.2	350.7	215.3	108.4	66.1	53.8	53.1
15°	518.3	513.7	503.0	486.8	462.2	453.0	266.9	112.3	63.1	51.5	53.1
17.5°	609.9	605.2	599.1	582.9	557.6	543.7	324.5	114.6	59.2	50.0	52.3
20°	683.7	680.6	672.1	659.1	633.7	620.6	370.7	114.6	55.4	48.4	51.5
22.5°	779.0	772.1	761.4	742.1	710.6	690.6	414.5	112.3	51.5	46.9	50.0
25°	866.7	862.1	848.3	825.2	791.3	771.4	451.4	107.7	46.9	44.6	48.4
27.5°	919.0	915.9	902.9	879.0	841.3	826.0	482.2	100.7	42.3	42.3	47.7
30°	959.0	952.8	939.8	916.7	878.2	859.8	511.4	92.3	38.5	40.0	46.1
32.5°	979.0	976.7	965.2	945.2	907.5	886.7	535.3	81.5	33.8	38.5	45.4
35°	990.5	988.2	979.0	959.8	924.4	904.4	545.3	71.5	30.8	36.9	44.6
37.5°	999.8	997.5	985.9	966.7	931.3	910.5	540.6	60.8	27.7	35.4	43.8
40°	1010.5	1002.1	984.4	965.2	932.9	912.9	529.1	50.8	25.4	34.6	43.8
42.5°	1036.7	1007.4	979.8	962.1	931.3	908.2	496.0	40.0	23.1	33.1	43.1
45°	1057.4	1005.9	970.5	956.7	925.2	899.0	453.0	29.2	22.3	32.3	43.1
47.5°	1002.8	971.3	955.2	947.5	913.6	885.2	408.4	20.0	21.5	31.5	42.3
50°	918.2	914.4	908.2	909.0	878.2	855.2	343.8	13.8	20.0	30.8	41.5
52.5°	877.5	872.9	862.1	854.4	823.6	803.7	272.2	10.8	19.2	30.0	40.8
55°	763.7	766.7	755.2	759.8	750.6	740.6	172.3	10.0	18.5	28.5	40.0
57.5°	503.0	518.3	545.3	577.6	606.8	626.8	93.1	10.0	16.9	27.7	38.5
60°	448.4	444.5	443.7	449.9	463.0	473.7	32.3	9.2	16.1	25.4	36.9
62.5°	245.3	243.8	266.9	306.1	329.2	331.5	9.2	9.2	14.6	23.8	34.6
65°	58.4	60.8	67.7	84.6	100.0	110.0	6.9	8.5	13.1	22.3	32.3
67.5°	9.2	10.0	10.0	12.3	13.8	13.8	6.2	7.7	11.5	20.0	30.0
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.9	10.0	17.7	26.9
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.4	6.2	8.5	15.4	23.1
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.4	6.9	12.3	20.0
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.8	4.6	6.2	10.0	16.1
80°	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.8	4.6	7.7	12.3
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.1	3.8	6.2	9.2
85°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	2.3	3.8	6.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	2.3	3.1
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: P1320180

CATALOG NUMBER: LDSQA3D13R659840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	74.6	74.6
2.5°	63.1	62.3
5°	56.9	56.9
7.5°	54.6	54.6
10°	53.8	54.6
12.5°	53.8	54.6
15°	53.8	54.6
17.5°	53.8	54.6
20°	53.1	53.8
22.5°	52.3	53.1
25°	51.5	53.1
27.5°	50.8	53.1
30°	50.8	53.1
32.5°	50.8	53.1
35°	50.0	53.1
37.5°	50.0	53.1
40°	50.0	53.1
42.5°	50.0	53.1
45°	50.0	53.1
47.5°	50.0	53.1
50°	50.0	53.1
52.5°	49.2	53.1
55°	49.2	52.3
57.5°	47.7	50.8
60°	46.1	49.2
62.5°	44.6	47.7
65°	42.3	45.4
67.5°	40.0	42.3
70°	36.1	39.2
72.5°	32.3	34.6
75°	27.7	30.0
77.5°	23.1	25.4
80°	18.5	20.0
82.5°	13.1	14.6
85°	8.5	9.2
87.5°	3.8	3.8
90°	0.0	0.0

(END OF REPORT)