

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: P1315520

Luminaire Tested: LDSQA3D09R609735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R609735DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

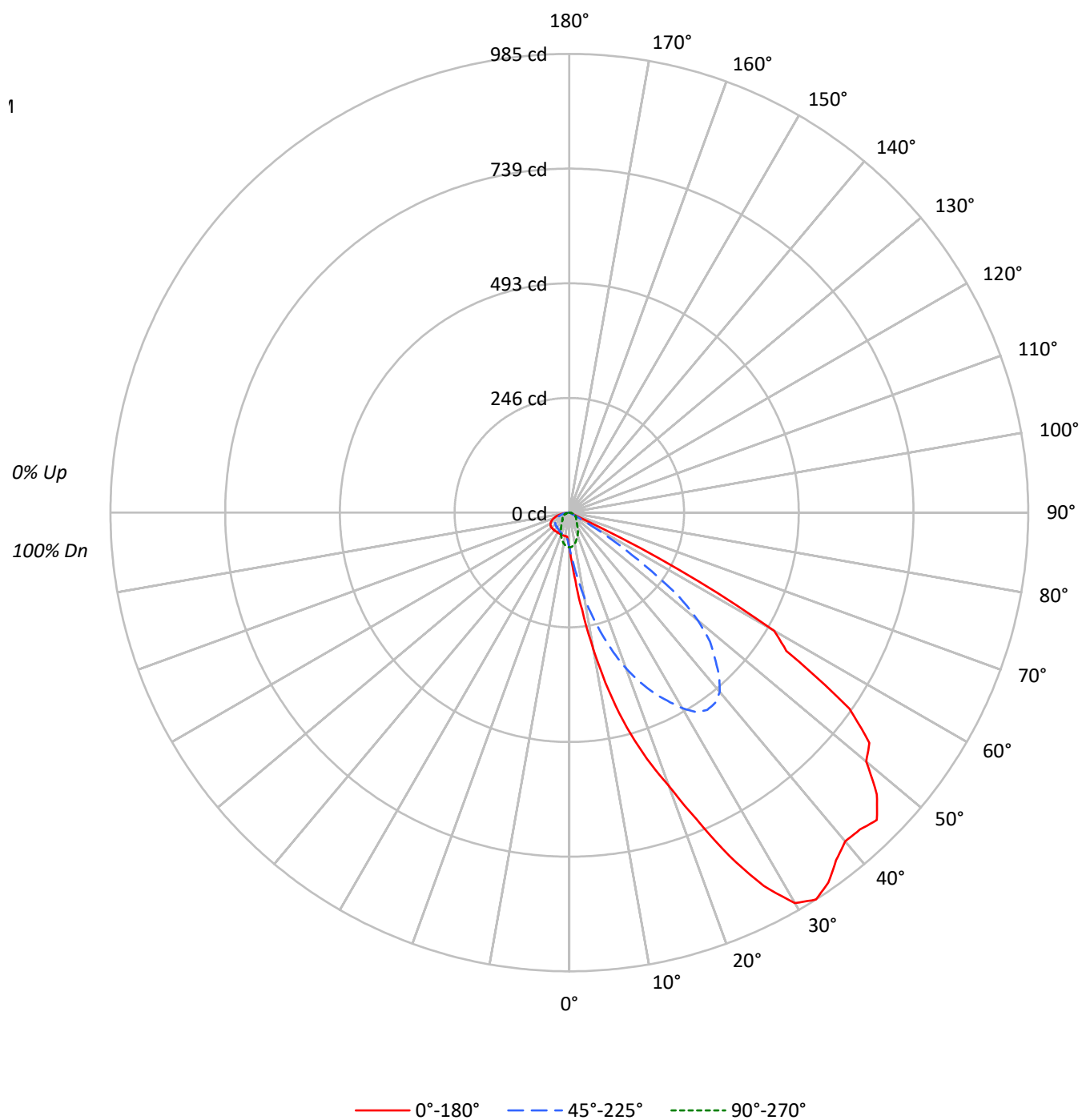
Lumens per Lamp: N/A
Luminaire Lumens: 750.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12796	12796	12796	12796	12796
5°	25223	19691	12603	9543	9076
10°	52097	32073	11804	8709	8831
15°	85209	48140	10573	8754	9004
20°	114327	65228	9494	8742	9127
25°	154682	80970	8285	8684	9463
30°	192522	96390	6921	8671	9904
35°	203833	108655	5887	8893	10323
40°	207082	112972	5373	9195	11196
45°	227314	107605	5139	9791	12129
50°	222838	96455	5117	10423	13343
55°	220271	59151	5104	11260	14743
60°	174703	14088	5408	11987	15982
65°	11125	2486	5298	12225	17238
70°	2417	2769	5136	12689	18178
75°	2262	2728	4525	12244	18632
80°	1984	2678	4761	12199	17555
85°	1383	2766	5335	10868	17587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 239933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	1.2
10°-20°	46.8	6.2
20°-30°	108.5	14.5
30°-40°	168.6	22.5
40°-50°	192.1	25.6
50°-60°	161.8	21.6
60°-70°	46.9	6.3
70°-80°	12.0	1.6
80°-90°	4.1	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°	164.5	21.9
0°-40°	333.1	44.4
0°-60°	687.0	91.6
0°-90°	750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	146	114	73	55	52	19
15°	478	270	59	49	50	138
25°	814	426	44	46	50	378
35°	970	517	28	42	49	602
45°	933	442	21	40	50	702
55°	734	197	17	38	49	617
65°	27	6	13	30	42	135
75°	3	4	7	18	28	4
85°	1	1	3	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°	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
2.5°	100.2	99.5	99.5	98.9	98.2	97.5	95.4	94.8	90.7	82.5	74.3
5°	145.9	145.2	143.2	142.5	139.1	134.3	129.5	124.8	113.9	90.7	72.9
7.5°	211.3	212.7	211.3	203.8	199.1	191.6	177.3	167.0	145.2	98.9	70.2
10°	297.9	297.9	295.9	284.3	274.1	259.8	241.3	223.6	183.4	106.4	67.5
12.5°	392.0	394.1	383.8	374.3	355.9	338.2	312.9	286.3	227.0	112.5	64.1
15°	477.9	476.6	466.3	454.1	435.0	410.4	383.8	349.7	270.0	116.6	59.3
17.5°	554.3	551.5	542.7	529.0	505.9	478.6	444.5	407.7	314.3	120.0	55.9
20°	623.8	614.3	604.0	589.7	567.2	538.6	503.1	461.6	355.9	120.0	51.8
22.5°	711.8	702.2	687.9	666.1	636.1	600.6	559.0	512.0	392.7	117.3	47.7
25°	814.0	806.5	782.0	754.0	715.2	672.9	624.5	561.1	426.1	113.2	43.6
27.5°	903.3	895.2	870.6	829.7	782.7	732.2	681.1	616.3	455.4	105.7	38.9
30°	968.1	957.9	938.8	899.9	842.7	781.3	720.6	658.6	484.7	96.8	34.8
32.5°	985.1	983.8	969.5	940.8	889.7	822.2	749.9	682.4	507.9	85.2	31.4
35°	969.5	971.5	968.8	954.5	917.0	850.8	769.0	695.4	516.8	73.6	28.0
37.5°	940.8	943.6	948.3	950.4	926.5	867.9	779.9	700.8	514.7	62.0	25.9
40°	921.1	919.7	919.7	933.3	928.6	875.4	781.3	696.8	502.5	49.8	23.9
42.5°	923.1	908.1	897.9	919.7	926.5	872.0	772.4	685.9	475.9	38.2	21.8
45°	933.3	901.3	883.6	911.5	922.4	860.4	756.1	669.5	441.8	26.6	21.1
47.5°	895.2	874.0	871.3	910.8	914.9	840.6	730.8	643.6	409.1	18.4	19.8
50°	831.7	828.3	842.7	883.6	884.2	807.9	702.2	596.5	360.0	13.0	19.1
52.5°	812.0	814.0	827.0	848.1	828.3	752.7	650.4	557.0	297.9	10.2	18.4
55°	733.6	737.0	749.3	762.2	747.9	685.2	587.7	509.3	197.0	9.5	17.0
57.5°	552.2	561.1	583.6	595.2	596.5	558.4	532.5	439.1	111.1	9.5	16.4
60°	507.2	495.6	485.4	461.6	439.7	435.0	437.7	329.3	40.9	8.9	15.7
62.5°	265.2	259.8	275.4	285.7	288.4	303.4	283.6	173.8	8.9	8.9	14.3
65°	27.3	27.3	33.4	44.3	73.6	98.2	93.4	50.5	6.1	8.2	13.0
67.5°	8.2	8.2	8.2	9.5	12.3	12.3	10.2	7.5	6.1	7.5	11.6
70°	4.8	4.8	4.8	4.8	4.8	4.8	5.5	4.8	5.5	6.8	10.2
72.5°	4.1	4.1	4.1	4.1	4.8	4.8	4.8	4.8	4.8	6.1	8.9
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	4.1	4.8	6.8
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.4	3.4	3.4	4.1	5.5
80°	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7	3.4	4.8
82.5°	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.7	3.4
85°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0
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°	74.3	74.3	74.3	74.3
2.5°	67.5	62.7	60.0	58.6
5°	61.4	55.2	53.2	52.5
7.5°	55.9	51.8	51.1	51.1
10°	52.5	49.8	50.5	50.5
12.5°	50.5	49.8	50.5	51.1
15°	48.4	49.1	50.5	50.5
17.5°	47.0	48.4	49.8	50.5
20°	45.0	47.7	49.8	49.8
22.5°	43.6	47.0	49.1	49.8
25°	42.3	45.7	48.4	49.8
27.5°	40.2	45.0	48.4	49.1
30°	38.2	43.6	47.7	49.8
32.5°	36.1	43.0	47.7	49.1
35°	34.8	42.3	47.7	49.1
37.5°	33.4	41.6	47.7	49.8
40°	32.7	40.9	47.0	49.8
42.5°	31.4	40.9	47.0	49.8
45°	30.7	40.2	47.0	49.8
47.5°	30.0	39.5	47.0	49.8
50°	28.6	38.9	46.4	49.8
52.5°	28.0	38.2	46.4	49.8
55°	26.6	37.5	45.7	49.1
57.5°	25.9	36.1	45.0	47.7
60°	24.5	34.8	43.6	46.4
62.5°	22.5	32.7	41.6	45.0
65°	20.5	30.0	39.5	42.3
67.5°	18.4	28.0	36.8	39.5
70°	16.4	25.2	33.4	36.1
72.5°	14.3	21.8	30.0	32.0
75°	12.3	18.4	25.2	28.0
77.5°	9.5	15.0	21.1	23.2
80°	7.5	12.3	16.4	17.7
82.5°	6.1	8.9	12.3	13.0
85°	4.1	5.5	7.5	8.9
87.5°	2.0	2.7	3.4	4.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)