

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: P1317109

Luminaire Tested: LDSQA3D02R609827DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317109
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: LDSQA3D02R609827DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

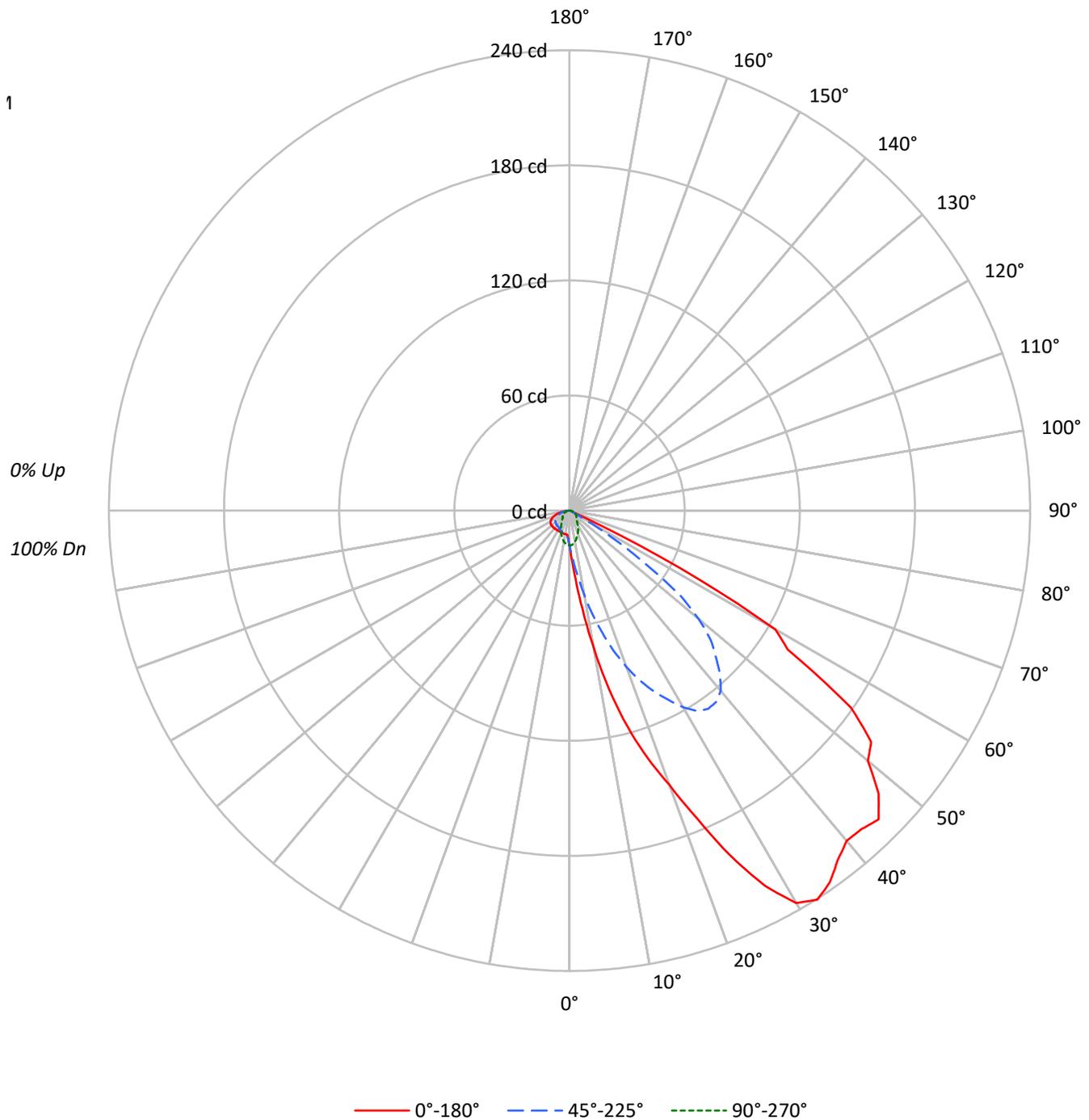
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 183.0 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07
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 (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	0
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	93	91	92	90	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3117	3117	3117	3117	3117
5°	6155	4806	3077	2334	2213
10°	12714	7817	2886	2116	2151
15°	20790	11750	2585	2140	2193
20°	27895	15908	2309	2126	2218
25°	37739	19763	2014	2109	2299
30°	46972	23526	1690	2108	2406
35°	49723	26512	1430	2166	2523
40°	50517	27563	1304	2248	2720
45°	55459	26256	1267	2387	2947
50°	54363	23524	1259	2545	3242
55°	53747	14443	1261	2732	3603
60°	42642	3444	1309	2928	3892
65°	2730	611	1304	2975	4197
70°	604	655	1259	3122	4431
75°	532	665	1131	2994	4525
80°	496	694	1190	2975	4265
85°	395	593	1383	2569	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 58533 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	1.2
10°-20°	11.4	6.2
20°-30°	26.5	14.5
30°-40°	41.1	22.5
40°-50°	46.9	25.6
50°-60°	39.5	21.6
60°-70°	11.5	6.3
70°-80°	2.9	1.6
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°	40.1	21.9
0°-40°	81.3	44.4
0°-60°	167.6	91.6
0°-90°	183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	183.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	36	28	18	14	13	5
15°	117	66	14	12	12	34
25°	199	104	11	11	12	92
35°	236	126	7	10	12	147
45°	228	108	5	10	12	171
55°	179	48	4	9	12	151
65°	7	2	3	7	10	33
75°	1	1	2	4	7	1
85°	0	0	1	1	2	0
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°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	24.5	24.3	24.3	24.1	24.0	23.8	23.3	23.1	22.1	20.1	18.1
5°	35.6	35.4	34.9	34.8	33.9	32.8	31.6	30.4	27.8	22.1	17.8
7.5°	51.6	51.9	51.6	49.7	48.6	46.7	43.3	40.8	35.4	24.1	17.1
10°	72.7	72.7	72.2	69.4	66.9	63.4	58.9	54.6	44.7	26.0	16.5
12.5°	95.7	96.1	93.7	91.3	86.8	82.5	76.4	69.9	55.4	27.4	15.6
15°	116.6	116.3	113.8	110.8	106.1	100.1	93.7	85.3	65.9	28.4	14.5
17.5°	135.2	134.6	132.4	129.1	123.4	116.8	108.5	99.5	76.7	29.3	13.6
20°	152.2	149.9	147.4	143.9	138.4	131.4	122.8	112.6	86.8	29.3	12.6
22.5°	173.7	171.3	167.8	162.5	155.2	146.6	136.4	124.9	95.8	28.6	11.6
25°	198.6	196.8	190.8	184.0	174.5	164.2	152.4	136.9	104.0	27.6	10.6
27.5°	220.4	218.4	212.4	202.4	191.0	178.7	166.2	150.4	111.1	25.8	9.5
30°	236.2	233.7	229.1	219.6	205.6	190.6	175.8	160.7	118.3	23.6	8.5
32.5°	240.4	240.0	236.5	229.6	217.1	200.6	183.0	166.5	123.9	20.8	7.7
35°	236.5	237.0	236.4	232.9	223.7	207.6	187.6	169.7	126.1	18.0	6.8
37.5°	229.6	230.2	231.4	231.9	226.1	211.8	190.3	171.0	125.6	15.1	6.3
40°	224.7	224.4	224.4	227.7	226.6	213.6	190.6	170.0	122.6	12.1	5.8
42.5°	225.2	221.6	219.1	224.4	226.1	212.8	188.5	167.3	116.1	9.3	5.3
45°	227.7	219.9	215.6	222.4	225.1	209.9	184.5	163.4	107.8	6.5	5.2
47.5°	218.4	213.3	212.6	222.2	223.2	205.1	178.3	157.0	99.8	4.5	4.8
50°	202.9	202.1	205.6	215.6	215.8	197.1	171.3	145.6	87.8	3.2	4.7
52.5°	198.1	198.6	201.8	206.9	202.1	183.6	158.7	135.9	72.7	2.5	4.5
55°	179.0	179.8	182.8	186.0	182.5	167.2	143.4	124.3	48.1	2.3	4.2
57.5°	134.7	136.9	142.4	145.2	145.6	136.2	129.9	107.1	27.1	2.3	4.0
60°	123.8	120.9	118.4	112.6	107.3	106.1	106.8	80.3	10.0	2.2	3.8
62.5°	64.7	63.4	67.2	69.7	70.4	74.0	69.2	42.4	2.2	2.2	3.5
65°	6.7	6.7	8.2	10.8	18.0	24.0	22.8	12.3	1.5	2.0	3.2
67.5°	2.0	2.0	2.0	2.3	3.0	3.0	2.5	1.8	1.5	1.8	2.8
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.3	1.7	2.5
72.5°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.2	1.5	2.2
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.2	1.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.0	1.3
80°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.8	1.2
82.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.7	0.8
85°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5
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°	18.1	18.1	18.1	18.1
2.5°	16.5	15.3	14.6	14.3
5°	15.0	13.5	13.0	12.8
7.5°	13.6	12.6	12.5	12.5
10°	12.8	12.1	12.3	12.3
12.5°	12.3	12.1	12.3	12.5
15°	11.8	12.0	12.3	12.3
17.5°	11.5	11.8	12.1	12.3
20°	11.0	11.6	12.1	12.1
22.5°	10.6	11.5	12.0	12.1
25°	10.3	11.1	11.8	12.1
27.5°	9.8	11.0	11.8	12.0
30°	9.3	10.6	11.6	12.1
32.5°	8.8	10.5	11.6	12.0
35°	8.5	10.3	11.6	12.0
37.5°	8.2	10.1	11.6	12.1
40°	8.0	10.0	11.5	12.1
42.5°	7.7	10.0	11.5	12.1
45°	7.5	9.8	11.5	12.1
47.5°	7.3	9.6	11.5	12.1
50°	7.0	9.5	11.3	12.1
52.5°	6.8	9.3	11.3	12.1
55°	6.5	9.1	11.1	12.0
57.5°	6.3	8.8	11.0	11.6
60°	6.0	8.5	10.6	11.3
62.5°	5.5	8.0	10.1	11.0
65°	5.0	7.3	9.6	10.3
67.5°	4.5	6.8	9.0	9.6
70°	4.0	6.2	8.2	8.8
72.5°	3.5	5.3	7.3	7.8
75°	3.0	4.5	6.2	6.8
77.5°	2.3	3.7	5.2	5.7
80°	1.8	3.0	4.0	4.3
82.5°	1.5	2.2	3.0	3.2
85°	1.0	1.3	1.8	2.2
87.5°	0.5	0.7	0.8	1.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)