

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: P1319716

Luminaire Tested: LDSQA3D02R509840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R509840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

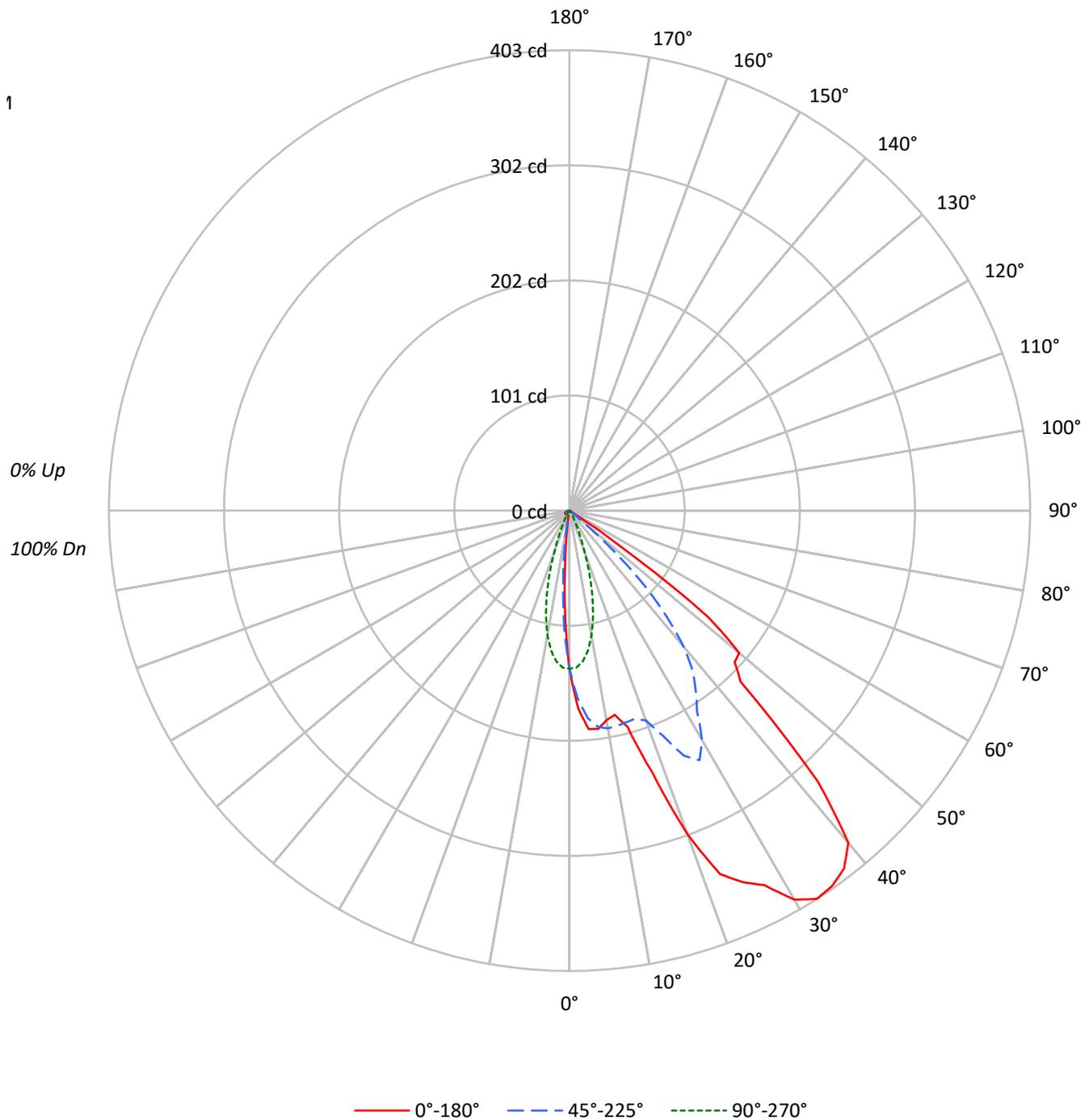
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 215.1 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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	
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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23801	23801	23801	23801	23801
5°	33193	31499	22889	10995	7140
10°	32580	33839	19342	2326	997
15°	34946	34198	13675	802	785
20°	55184	35812	7221	696	733
25°	68182	44979	2869	646	722
30°	78174	46137	1173	636	756
35°	84287	40493	526	673	841
40°	85319	34870	382	764	944
45°	51562	22602	365	828	1072
50°	51952	3912	402	965	1206
55°	15343	240	450	1081	1351
60°	276	276	448	1171	1516
65°	245	245	448	1223	1630
70°	302	302	453	1360	1813
75°	266	266	532	1397	1863
80°	198	397	595	1289	2083
85°	395	790	790	1581	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 58893 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	5.2
10°-20°	27.8	12.9
20°-30°	52.0	24.2
30°-40°	62.2	28.9
40°-50°	44.6	20.7
50°-60°	13.7	6.4
60°-70°	1.8	0.8
70°-80°	1.3	0.6
80°-90°	0.5	0.3
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°	90.9	42.3
0°-40°	153.1	71.2
0°-60°	211.4	98.3
0°-90°	215.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	215.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	138	138	138	138	138	
5°	192	182	132	64	41	18
15°	196	192	77	4	4	63
25°	359	237	15	3	4	165
35°	401	193	2	3	4	249
45°	212	93	2	3	4	194
55°	51	1	2	4	4	66
65°	1	1	1	3	4	1
75°	0	0	1	2	3	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	172.9	173.3	173.8	172.3	171.4	170.6	169.3	168.9	165.7	164.4	163.0
5°	192.0	191.6	192.0	191.4	191.1	189.9	188.8	186.9	184.8	182.2	179.1
7.5°	192.6	192.2	192.9	192.9	193.7	193.7	193.7	193.9	192.8	190.9	188.2
10°	186.3	186.3	187.1	186.7	188.0	188.6	189.9	192.2	193.3	193.5	192.8
12.5°	183.1	183.1	183.3	182.5	182.9	183.5	185.0	187.6	190.3	192.9	194.5
15°	196.0	196.4	193.7	189.9	187.1	184.0	183.1	184.8	187.6	191.8	195.2
17.5°	239.7	240.3	237.4	228.4	219.6	207.2	196.0	190.5	187.5	190.9	195.4
20°	301.1	299.0	294.1	284.4	271.7	252.4	235.0	217.4	200.5	195.4	196.9
22.5°	344.4	343.7	339.7	328.9	317.9	299.9	277.8	253.2	228.7	213.2	205.1
25°	358.8	358.3	354.7	348.2	342.2	328.5	308.6	283.8	258.3	236.7	216.2
27.5°	369.6	368.9	363.2	356.0	349.7	335.9	317.7	299.0	275.5	246.3	214.9
30°	393.1	391.0	383.1	370.2	358.3	339.1	319.1	295.8	264.0	232.0	201.3
32.5°	402.9	401.8	395.0	384.6	371.5	346.5	316.0	277.0	235.2	207.5	185.2
35°	400.9	399.2	392.1	380.2	364.3	340.3	299.6	246.0	211.9	192.6	167.4
37.5°	394.6	392.1	383.8	369.8	350.5	319.1	265.8	220.8	198.8	177.0	143.1
40°	379.5	375.5	365.8	351.2	331.9	290.7	235.2	205.6	185.2	155.1	116.1
42.5°	321.5	319.4	324.2	321.7	304.7	256.0	213.4	191.8	163.6	125.4	84.1
45°	211.7	215.3	223.8	238.4	241.8	220.2	195.6	169.1	134.6	92.8	48.5
47.5°	196.0	195.2	197.3	200.1	200.7	191.6	169.3	139.7	100.0	53.0	13.4
50°	193.9	192.8	191.1	187.6	180.5	162.8	137.5	101.9	57.8	14.6	0.9
52.5°	153.2	152.0	152.0	147.1	137.8	120.8	94.9	56.0	16.1	0.9	0.8
55°	51.1	54.5	54.0	53.8	57.9	53.4	40.9	14.4	1.3	0.8	0.8
57.5°	0.9	0.9	0.9	1.7	2.7	3.8	2.3	1.1	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6
77.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2
2.5°	160.0	157.4	152.2	137.7	121.6	103.2	90.7	89.2
5°	174.4	170.4	162.1	132.4	95.6	63.6	47.3	41.3
7.5°	183.9	178.6	168.3	123.6	69.7	33.5	18.0	14.4
10°	189.5	184.6	171.6	110.6	44.3	13.3	6.1	5.7
12.5°	192.6	187.8	172.7	94.9	25.0	6.1	4.7	4.7
15°	194.7	189.5	171.0	76.7	12.5	4.5	4.4	4.4
17.5°	195.6	189.4	166.1	57.8	6.6	4.2	4.2	4.2
20°	196.2	187.3	157.0	39.4	4.5	3.8	4.0	4.0
22.5°	196.7	182.2	145.0	25.0	3.6	3.6	3.8	3.8
25°	195.6	173.3	128.2	15.1	3.2	3.4	3.6	3.8
27.5°	187.5	159.8	107.7	9.3	2.8	3.2	3.6	3.8
30°	173.4	140.1	84.1	5.9	2.7	3.2	3.6	3.8
32.5°	155.3	117.6	60.0	3.6	2.7	3.2	3.6	3.8
35°	130.8	89.9	39.0	2.5	2.7	3.2	3.8	4.0
37.5°	103.4	62.9	21.0	1.9	2.7	3.2	3.8	4.0
40°	74.4	37.7	7.6	1.7	2.5	3.4	4.0	4.2
42.5°	43.6	14.0	1.3	1.5	2.5	3.4	4.0	4.2
45°	12.5	1.5	0.8	1.5	2.5	3.4	4.2	4.4
47.5°	0.9	0.6	0.8	1.5	2.5	3.4	4.2	4.5
50°	0.6	0.6	0.6	1.5	2.5	3.6	4.4	4.5
52.5°	0.8	0.8	0.8	1.5	2.5	3.6	4.4	4.5
55°	0.8	0.8	0.8	1.5	2.5	3.6	4.4	4.5
57.5°	0.8	0.8	0.8	1.5	2.5	3.4	4.4	4.5
60°	0.8	0.8	0.8	1.3	2.3	3.4	4.2	4.4
62.5°	0.8	0.8	0.8	1.3	2.3	3.2	4.2	4.2
65°	0.8	0.8	0.8	1.1	2.1	3.0	3.8	4.0
67.5°	0.8	0.8	0.8	1.1	1.9	2.8	3.6	3.8
70°	0.6	0.8	0.8	0.9	1.7	2.7	3.4	3.6
72.5°	0.6	0.6	0.8	0.9	1.5	2.3	3.0	3.2
75°	0.6	0.6	0.6	0.8	1.3	2.1	2.7	2.8
77.5°	0.6	0.6	0.6	0.8	1.1	1.7	2.5	2.5
80°	0.4	0.6	0.6	0.6	0.9	1.3	1.9	2.1
82.5°	0.4	0.4	0.4	0.6	0.8	1.1	1.5	1.5
85°	0.4	0.4	0.4	0.4	0.6	0.8	0.9	0.9
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)