

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: P1311035

Luminaire Tested: LDSQA3D02R509040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311035
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: LDSQA3D02R509040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

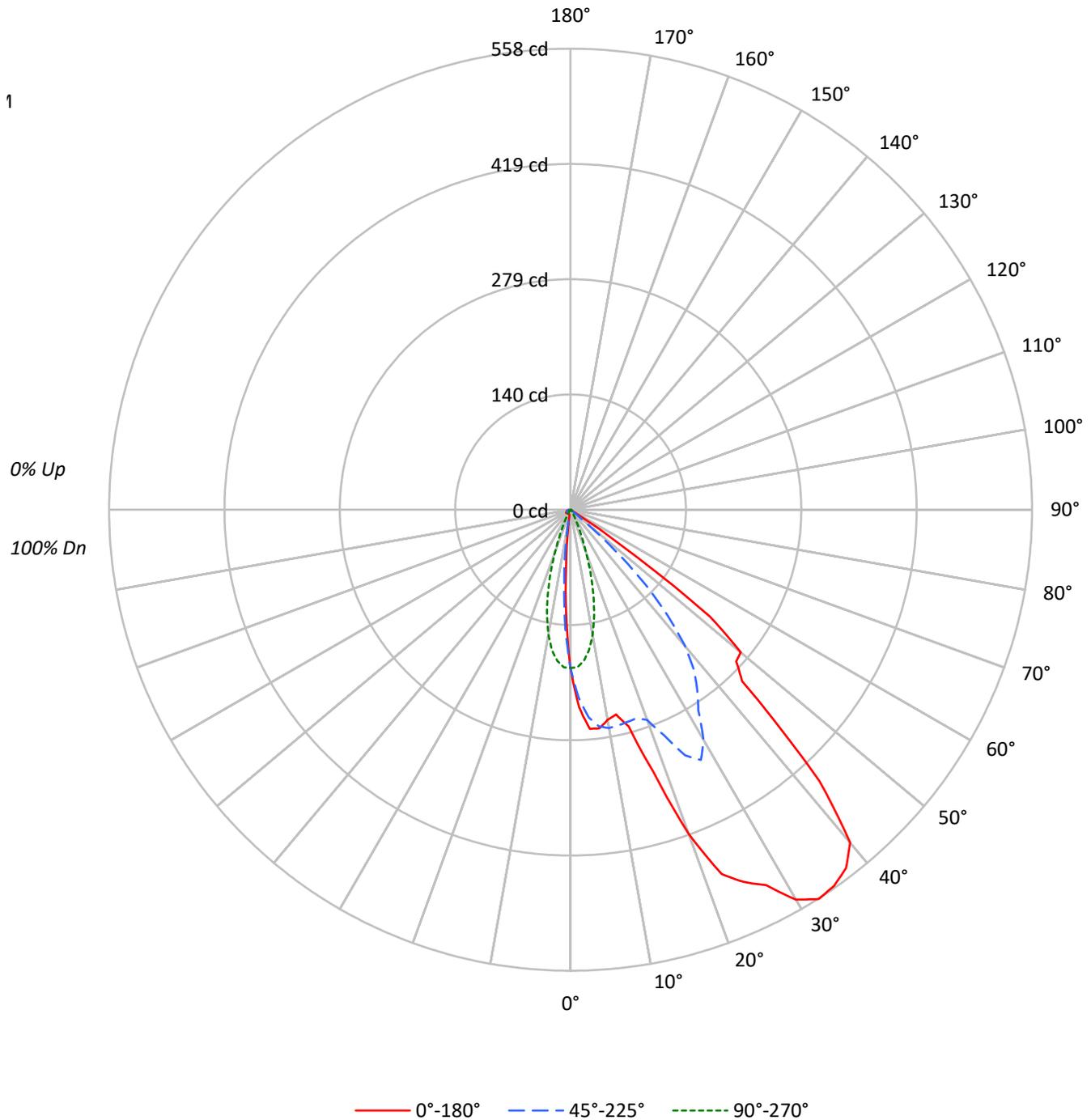
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 298.0 lumens
Efficiency: N/A
Efficacy: 82.8 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 (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: P1311035
CATALOG NUMBER: LDSQA3D02R509040DE010 3LSQCA30R 1MW

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	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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32998	32998	32998	32998	32998
5°	46004	43652	31724	15248	9889
10°	45171	46903	26809	3218	1382
15°	48426	47409	18953	1123	1070
20°	76481	49631	10007	953	1008
25°	94500	62348	3991	893	988
30°	108342	63935	1611	895	1034
35°	116812	56114	715	946	1156
40°	118256	48314	540	1057	1304
45°	71460	31322	511	1145	1461
50°	71993	5412	563	1340	1688
55°	21289	300	631	1501	1892
60°	344	344	620	1619	2067
65°	326	326	652	1712	2241
70°	403	403	655	1863	2518
75°	333	333	665	1930	2595
80°	298	496	793	1785	2876
85°	593	988	988	1976	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 81617 cd/sqm



TEST NUMBER: P1311035

CATALOG NUMBER: LDSQA3D02R509040DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	5.2
10°-20°	38.5	12.9
20°-30°	72.1	24.2
30°-40°	86.2	28.9
40°-50°	61.7	20.7
50°-60°	19.0	6.4
60°-70°	2.5	0.8
70°-80°	1.8	0.6
80°-90°	0.7	0.2
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°	126.0	42.3
0°-40°	212.2	71.2
0°-60°	292.9	98.3
0°-90°	298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	298.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	192	192	192	192	192	
5°	266	252	184	88	57	25
15°	272	266	106	6	6	87
25°	497	328	21	5	5	229
35°	556	267	3	4	6	345
45°	293	129	2	5	6	269
55°	71	1	2	5	6	91
65°	1	1	2	4	6	1
75°	0	0	1	3	4	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1311035

CATALOG NUMBER: LDSQA3D02R509040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6
2.5°	239.6	240.1	240.9	238.8	237.5	236.5	234.6	234.1	229.6	227.8	226.0
5°	266.1	265.6	266.1	265.3	264.8	263.2	261.7	259.0	256.2	252.5	248.3
7.5°	266.9	266.4	267.4	267.4	268.5	268.5	268.5	268.7	267.2	264.5	260.9
10°	258.3	258.3	259.3	258.8	260.6	261.4	263.2	266.4	268.0	268.2	267.2
12.5°	253.8	253.8	254.1	253.0	253.5	254.3	256.4	260.1	263.8	267.4	269.5
15°	271.6	272.2	268.5	263.2	259.3	255.1	253.8	256.2	260.1	265.9	270.6
17.5°	332.3	333.0	329.1	316.5	304.4	287.1	271.6	264.0	259.8	264.5	270.8
20°	417.3	414.4	407.6	394.2	376.6	349.8	325.7	301.3	277.9	270.8	272.9
22.5°	477.4	476.3	470.8	455.9	440.7	415.7	385.0	350.9	317.0	295.5	284.2
25°	497.3	496.6	491.6	482.6	474.2	455.4	427.8	393.4	358.0	328.1	299.7
27.5°	512.3	511.3	503.4	493.4	484.7	465.6	440.4	414.4	381.9	341.4	297.9
30°	544.8	542.0	530.9	513.1	496.6	470.0	442.2	409.9	365.9	321.5	279.0
32.5°	558.5	556.9	547.5	533.0	514.9	480.3	438.0	384.0	326.0	287.6	256.7
35°	555.6	553.2	543.5	527.0	505.0	471.6	415.2	340.9	293.7	266.9	232.0
37.5°	546.9	543.5	532.0	512.6	485.8	442.2	368.5	306.0	275.6	245.4	198.4
40°	526.0	520.4	507.1	486.8	460.1	402.9	326.0	285.0	256.7	214.9	160.9
42.5°	445.6	442.8	449.3	445.9	422.3	354.8	295.8	265.9	226.8	173.7	116.5
45°	293.4	298.4	310.2	330.4	335.1	305.2	271.1	234.4	186.6	128.6	67.2
47.5°	271.6	270.6	273.5	277.4	278.2	265.6	234.6	193.7	138.6	73.5	18.6
50°	268.7	267.2	264.8	260.1	250.1	225.7	190.5	141.2	80.0	20.2	1.3
52.5°	212.3	210.7	210.7	203.9	191.1	167.4	131.5	77.7	22.3	1.3	1.0
55°	70.9	75.6	74.8	74.5	80.3	74.0	56.7	19.9	1.8	1.0	1.0
57.5°	1.3	1.3	1.3	2.4	3.7	5.2	3.1	1.6	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
77.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
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: P1311035

CATALOG NUMBER: LDSQA3D02R509040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6
2.5°	221.8	218.1	211.0	190.8	168.5	143.0	125.7	123.6
5°	241.7	236.2	224.7	183.5	132.5	88.2	65.6	57.2
7.5°	254.8	247.5	233.3	171.4	96.6	46.5	24.9	19.9
10°	262.7	255.9	237.8	153.3	61.4	18.4	8.4	7.9
12.5°	266.9	260.4	239.4	131.5	34.6	8.4	6.6	6.6
15°	269.8	262.7	237.0	106.3	17.3	6.3	6.0	6.0
17.5°	271.1	262.5	230.2	80.0	9.2	5.8	5.8	5.8
20°	271.9	259.6	217.6	54.6	6.3	5.2	5.5	5.5
22.5°	272.7	252.5	201.0	34.6	5.0	5.0	5.2	5.2
25°	271.1	240.1	177.7	21.0	4.5	4.7	5.0	5.2
27.5°	259.8	221.5	149.3	12.9	3.9	4.5	5.0	5.2
30°	240.4	194.2	116.5	8.1	3.7	4.5	5.0	5.2
32.5°	215.2	163.0	83.2	5.0	3.7	4.5	5.0	5.2
35°	181.4	124.7	54.1	3.4	3.7	4.5	5.2	5.5
37.5°	143.3	87.1	29.1	2.6	3.7	4.5	5.2	5.5
40°	103.1	52.2	10.5	2.4	3.4	4.7	5.5	5.8
42.5°	60.4	19.4	1.8	2.1	3.4	4.7	5.5	5.8
45°	17.3	2.1	1.0	2.1	3.4	4.7	5.8	6.0
47.5°	1.3	0.8	1.0	2.1	3.4	4.7	5.8	6.3
50°	0.8	0.8	0.8	2.1	3.4	5.0	6.0	6.3
52.5°	1.0	1.0	1.0	2.1	3.4	5.0	6.0	6.3
55°	1.0	1.0	1.0	2.1	3.4	5.0	6.0	6.3
57.5°	1.0	1.0	1.0	2.1	3.4	4.7	6.0	6.3
60°	1.0	1.0	1.0	1.8	3.1	4.7	5.8	6.0
62.5°	1.0	1.0	1.0	1.8	3.1	4.5	5.8	5.8
65°	1.0	1.0	1.0	1.6	2.9	4.2	5.2	5.5
67.5°	1.0	1.0	1.0	1.6	2.6	3.9	5.0	5.2
70°	0.8	1.0	1.0	1.3	2.4	3.7	4.7	5.0
72.5°	0.8	0.8	1.0	1.3	2.1	3.1	4.2	4.5
75°	0.8	0.8	0.8	1.0	1.8	2.9	3.7	3.9
77.5°	0.8	0.8	0.8	1.0	1.6	2.4	3.4	3.4
80°	0.5	0.8	0.8	0.8	1.3	1.8	2.6	2.9
82.5°	0.5	0.5	0.5	0.8	1.0	1.6	2.1	2.1
85°	0.5	0.5	0.5	0.5	0.8	1.0	1.3	1.3
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)