

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: P1316144

Luminaire Tested: LDSQA3D02R509740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R509740DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

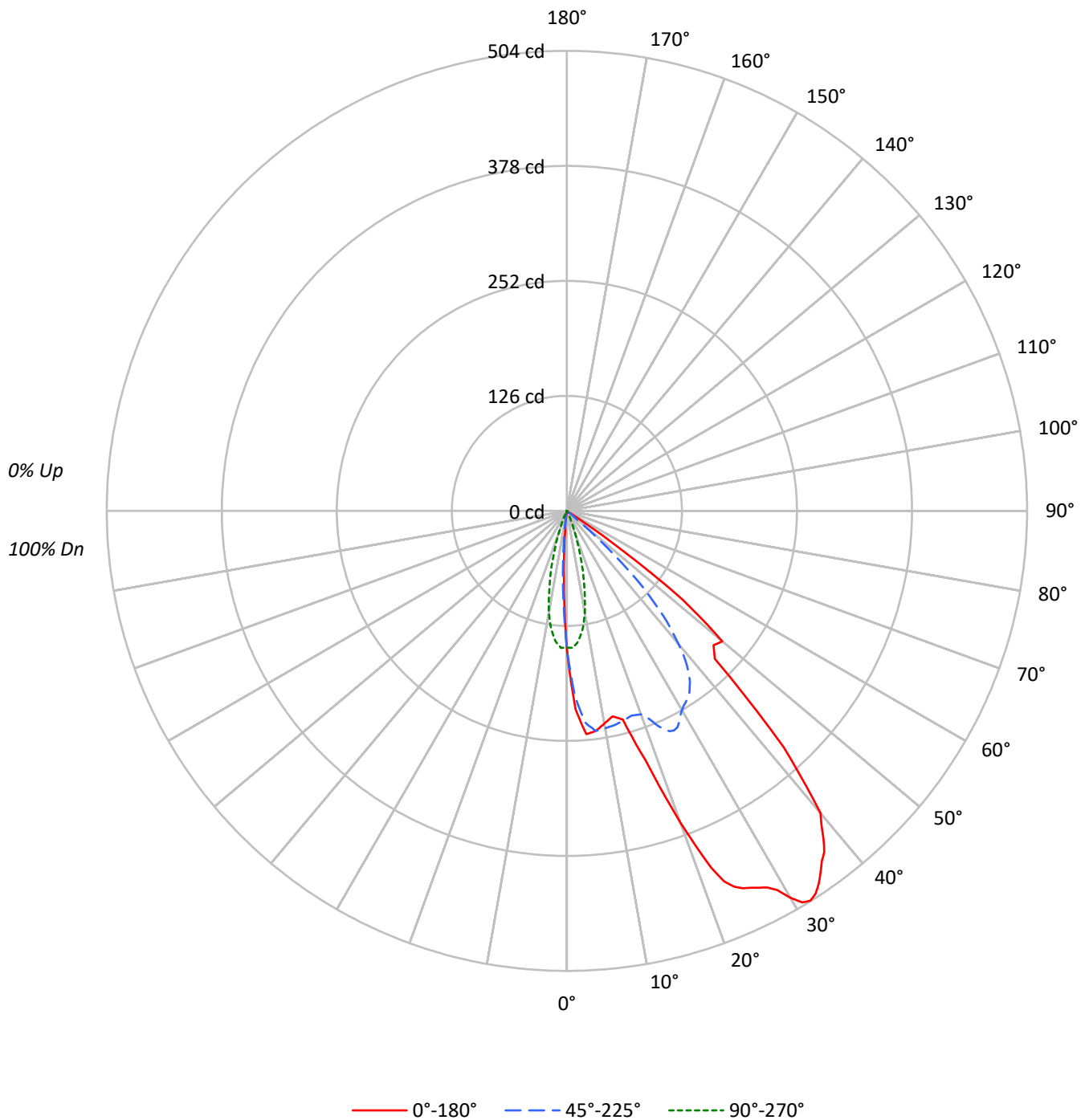
Lumens per Lamp: N/A
Luminaire Lumens: 241.0 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1316144

CATALOG NUMBER: LDSQA3D02R509740DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316144

CATALOG NUMBER: LDSQA3D02R509740DE010 3LSQCA30R 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25765	25765	25765	25765	25765
5°	42459	40298	24774	7347	3682
10°	41376	42286	19849	367	490
15°	42185	42435	11892	374	125
20°	66511	43455	4893	0	0
25°	86690	50623	1159	0	0
30°	97305	50074	40	0	0
35°	101843	49302	0	0	0
40°	97145	42828	0	0	0
45°	55800	28277	0	0	0
50°	59534	3242	0	0	0
55°	16965	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	496	198	0
85°	0	395	988	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 61596 cd/sqm

TEST NUMBER: P1316144

CATALOG NUMBER: LDSQA3D02R509740DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	5.2
10°-20°	31.7	13.1
20°-30°	60.8	25.2
30°-40°	70.8	29.4
40°-50°	50.7	21.0
50°-60°	14.1	5.9
60°-70°	0.1	0.0
70°-80°	0.1	0.1
80°-90°	0.2	0.1
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°	105.0	43.6
0°-40°	175.8	73.0
0°-60°	240.6	99.8
0°-90°	241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	241.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	150	150	150	150	150	
5°	246	233	143	42	21	23
15°	237	238	67	2	1	76
25°	456	266	6	0	0	208
35°	484	234	0	0	0	300
45°	229	116	0	0	0	215
55°	56	0	0	0	0	71
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1316144

CATALOG NUMBER: LDSQA3D02R509740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6
2.5°	217.5	218.7	218.9	216.1	216.5	212.5	212.7	209.9	203.1	179.2	150.3
5°	245.6	244.9	245.6	244.7	245.6	243.2	241.8	240.6	233.1	199.3	143.3
7.5°	243.0	242.1	243.5	244.0	245.6	244.9	245.1	245.8	243.2	210.1	131.2
10°	236.6	236.4	237.1	237.1	239.0	239.2	240.2	241.6	241.8	213.9	113.5
12.5°	230.5	229.8	229.8	229.5	230.5	230.2	232.6	235.9	240.4	211.6	89.1
15°	236.6	235.9	235.0	232.4	230.5	228.3	228.6	230.7	238.0	205.4	66.7
17.5°	286.3	282.5	277.8	269.5	260.7	245.6	236.6	230.9	235.2	196.0	44.4
20°	362.9	361.2	353.6	340.2	326.0	303.8	276.1	253.9	237.1	184.1	26.7
21°	391.9	391.0	382.9	370.4	354.3	327.4	299.0	272.3	240.9	179.2	21.0
22°	421.7	418.2	411.8	397.8	381.1	354.1	322.4	292.9	248.4	172.8	16.1
23°	440.9	438.7	431.9	420.8	404.7	378.5	346.1	313.9	255.8	165.7	12.1
24°	450.8	450.1	444.6	436.8	423.1	396.4	365.7	332.6	261.9	157.4	8.7
25°	456.2	453.9	450.6	444.9	434.5	411.3	383.9	348.9	266.4	149.2	6.1
26°	459.5	458.1	452.9	448.0	438.0	419.1	395.7	358.8	267.6	139.0	4.3
27°	463.3	460.0	455.0	449.1	438.0	421.5	400.2	363.1	266.2	128.6	2.8
28°	467.3	465.0	458.1	450.6	437.3	421.5	398.5	357.4	261.9	118.7	1.7
29°	475.1	472.1	463.6	452.4	437.6	421.0	392.2	345.6	256.2	107.6	0.9
30°	489.3	482.9	472.5	456.9	439.2	420.1	381.5	327.9	251.8	95.0	0.2
31°	500.4	496.9	484.8	465.2	443.9	417.5	369.0	310.4	248.7	84.2	0.0
32°	503.5	500.9	492.2	473.7	452.0	415.3	354.8	293.4	246.3	72.1	0.0
33°	500.0	498.3	489.1	472.3	454.1	412.5	338.5	276.6	243.7	61.2	0.0
34°	493.3	491.2	483.2	466.2	448.7	400.2	322.9	263.8	239.9	51.1	0.0
35°	484.4	482.7	474.4	457.6	438.7	381.1	307.3	255.3	234.5	40.9	0.0
36°	474.7	474.2	463.6	447.0	426.0	362.6	288.4	248.9	229.1	32.4	0.0
37°	468.3	465.9	454.3	438.0	410.8	341.1	273.3	246.8	221.5	25.1	0.0
38°	456.7	457.2	443.9	429.0	395.5	322.4	261.0	245.1	213.0	18.2	0.0
39°	443.0	443.2	429.5	416.7	377.3	302.8	250.8	243.5	202.3	11.6	0.0
40°	432.1	431.9	416.3	402.6	357.7	284.4	245.4	241.1	190.5	6.6	0.0
42.5°	351.3	352.7	354.6	360.3	311.6	252.0	240.2	227.9	157.0	0.0	0.0
45°	229.1	234.5	235.9	252.9	252.7	238.8	227.9	204.2	116.1	0.0	0.0
47.5°	217.9	219.6	222.7	229.3	232.8	226.0	203.8	170.7	63.4	0.0	0.0
50°	222.2	222.0	222.7	222.7	216.3	198.6	167.1	126.0	12.1	0.0	0.0
52.5°	159.6	165.5	171.9	174.7	166.4	147.7	122.0	74.0	0.0	0.0	0.0
55°	56.5	54.6	53.2	58.2	57.0	64.1	53.0	17.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.9	2.1	2.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5



TEST NUMBER: P1316144

CATALOG NUMBER: LDSQA3D02R509740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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



TEST NUMBER: P1316144

CATALOG NUMBER: LDSQA3D02R509740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	149.6	149.6	149.6	149.6
2.5°	119.8	92.0	74.5	75.6
5°	84.2	42.5	26.2	21.3
7.5°	50.4	13.0	2.6	2.1
10°	23.6	2.1	2.4	2.8
12.5°	7.1	1.9	2.6	2.4
15°	1.9	2.1	1.2	0.7
17.5°	0.7	0.9	0.0	0.0
20°	0.5	0.0	0.0	0.0
21°	0.5	0.0	0.0	0.0
22°	0.2	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.2	0.0	0.0	0.0
67.5°	0.2	0.0	0.0	0.0
70°	0.2	0.0	0.0	0.0
72.5°	0.2	0.0	0.0	0.0
75°	0.2	0.0	0.0	0.0
77.5°	0.2	0.0	0.0	0.0
80°	0.2	0.2	0.0	0.0

TEST NUMBER: P1316144

CATALOG NUMBER: LDSQA3D02R509740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)