

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: P1318838

Luminaire Tested: LDSQA3D02R509835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318838
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: LDSQA3D02R509835DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

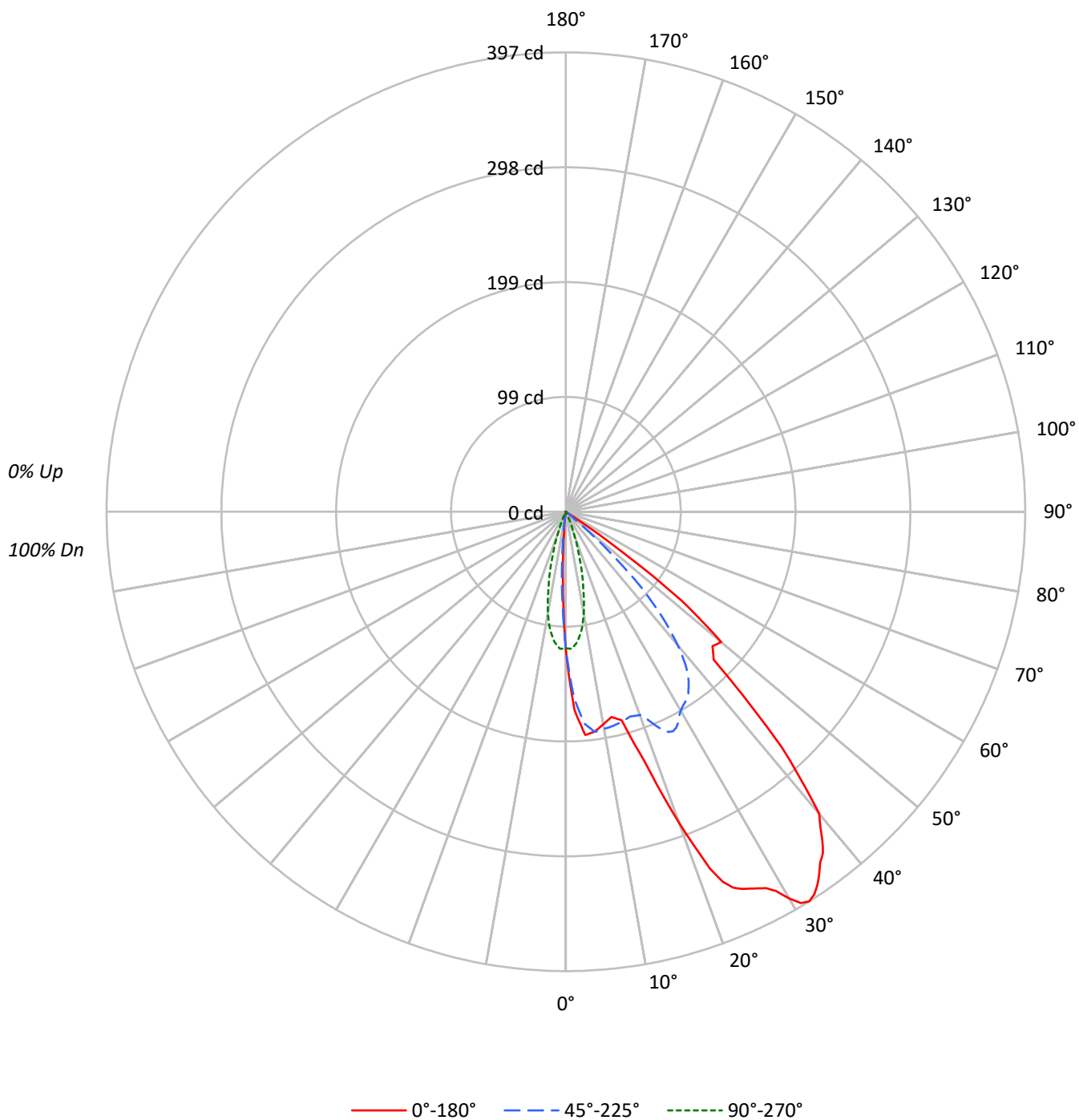
Lumens per Lamp: N/A
Luminaire Lumens: 190.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1318838

CATALOG NUMBER: LDSQA3D02R509835DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1318838

CATALOG NUMBER: LDSQA3D02R509835DE010 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	99	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	81	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°	20322	20322	20322	20322	20322
5°	33470	31775	19518	5791	2904
10°	32615	33332	15652	297	385
15°	33253	33467	9378	303	107
20°	52435	34254	3867	0	0
25°	68353	39906	912	0	0
30°	76722	39475	40	0	0
35°	80293	38874	0	0	0
40°	76596	33768	0	0	0
45°	43987	22286	0	0	0
50°	46941	2545	0	0	0
55°	13362	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	397	198	0
85°	0	395	790	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 48566 cd/sqm

TEST NUMBER: P1318838

CATALOG NUMBER: LDSQA3D02R509835DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	5.2
10°-20°	25.0	13.1
20°-30°	47.9	25.2
30°-40°	55.8	29.4
40°-50°	39.9	21.0
50°-60°	11.1	5.8
60°-70°	0.1	0.0
70°-80°	0.1	0.1
80°-90°	0.1	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°	82.8	43.6
0°-40°	138.6	72.9
0°-60°	189.7	99.8
0°-90°	190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	190.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	194	184	113	34	17	18
15°	186	188	53	2	1	60
25°	360	210	5	0	0	164
35°	382	185	0	0	0	236
45°	181	92	0	0	0	170
55°	44	0	0	0	0	56
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: P1318838

CATALOG NUMBER: LDSQA3D02R509835DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
2.5°	171.5	172.4	172.6	170.3	170.7	167.5	167.7	165.5	160.1	141.3	118.5
5°	193.6	193.1	193.6	192.9	193.6	191.8	190.6	189.7	183.8	157.1	112.9
7.5°	191.6	190.8	192.0	192.3	193.6	193.1	193.3	193.8	191.8	165.7	103.4
10°	186.5	186.4	186.9	186.9	188.4	188.6	189.3	190.5	190.6	168.7	89.5
12.5°	181.7	181.1	181.1	181.0	181.7	181.5	183.4	186.0	189.5	166.8	70.3
15°	186.5	186.0	185.2	183.2	181.7	180.0	180.2	181.9	187.7	161.9	52.6
17.5°	225.7	222.7	219.0	212.5	205.6	193.6	186.5	182.1	185.4	154.5	35.0
20°	286.1	284.8	278.8	268.2	257.0	239.5	217.7	200.2	186.9	145.2	21.1
21°	309.0	308.2	301.9	292.0	279.4	258.1	235.7	214.7	189.9	141.3	16.6
22°	332.5	329.7	324.6	313.6	300.4	279.2	254.2	230.9	195.9	136.2	12.7
23°	347.6	345.9	340.5	331.7	319.1	298.4	272.8	247.5	201.6	130.6	9.5
24°	355.4	354.8	350.5	344.4	333.6	312.5	288.3	262.2	206.5	124.1	6.9
25°	359.7	357.8	355.2	350.7	342.5	324.3	302.7	275.1	210.0	117.6	4.8
26°	362.3	361.2	357.1	353.2	345.3	330.4	312.0	282.9	211.0	109.6	3.4
27°	365.3	362.7	358.7	354.1	345.3	332.3	315.5	286.3	209.8	101.4	2.2
28°	368.4	366.6	361.2	355.2	344.8	332.3	314.2	281.8	206.5	93.6	1.3
29°	374.6	372.2	365.5	356.7	345.0	331.9	309.2	272.5	202.0	84.8	0.7
30°	385.8	380.7	372.5	360.2	346.3	331.2	300.8	258.5	198.5	74.9	0.2
31°	394.5	391.7	382.2	366.8	350.0	329.1	290.9	244.7	196.1	66.3	0.0
32°	397.0	394.9	388.0	373.5	356.3	327.4	279.7	231.3	194.2	56.8	0.0
33°	394.2	392.9	385.6	372.4	358.0	325.2	266.9	218.0	192.1	48.3	0.0
34°	388.9	387.3	380.9	367.5	353.7	315.5	254.6	208.0	189.2	40.3	0.0
35°	381.9	380.6	374.0	360.8	345.9	300.4	242.3	201.3	184.9	32.2	0.0
36°	374.2	373.8	365.5	352.4	335.8	285.9	227.4	196.2	180.6	25.5	0.0
37°	369.2	367.3	358.2	345.3	323.9	268.9	215.4	194.6	174.6	19.8	0.0
38°	360.1	360.4	350.0	338.2	311.8	254.2	205.7	193.3	167.9	14.3	0.0
39°	349.2	349.4	338.6	328.6	297.4	238.7	197.7	192.0	159.5	9.1	0.0
40°	340.7	340.5	328.2	317.4	282.0	224.2	193.4	190.1	150.2	5.2	0.0
42.5°	276.9	278.1	279.5	284.0	245.6	198.7	189.3	179.7	123.7	0.0	0.0
45°	180.6	184.9	186.0	199.4	199.2	188.2	179.7	161.0	91.5	0.0	0.0
47.5°	171.8	173.1	175.6	180.8	183.6	178.2	160.6	134.6	49.9	0.0	0.0
50°	175.2	175.0	175.6	175.6	170.5	156.5	131.8	99.3	9.5	0.0	0.0
52.5°	125.8	130.5	135.5	137.7	131.2	116.5	96.2	58.3	0.0	0.0	0.0
55°	44.5	43.0	41.9	45.8	44.9	50.5	41.7	13.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.7	1.7	2.2	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	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4



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CATALOG NUMBER: LDSQA3D02R509835DE010 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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
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: P1318838

CATALOG NUMBER: LDSQA3D02R509835DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	118.0	118.0	118.0	118.0
2.5°	94.5	72.5	58.7	59.6
5°	66.3	33.5	20.7	16.8
7.5°	39.7	10.2	2.0	1.7
10°	18.6	1.7	1.9	2.2
12.5°	5.6	1.5	2.0	1.9
15°	1.5	1.7	0.9	0.6
17.5°	0.6	0.7	0.0	0.0
20°	0.4	0.0	0.0	0.0
21°	0.4	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



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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)