

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: P1307688

Luminaire Tested: LDSQA3D02R559027DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R559027DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

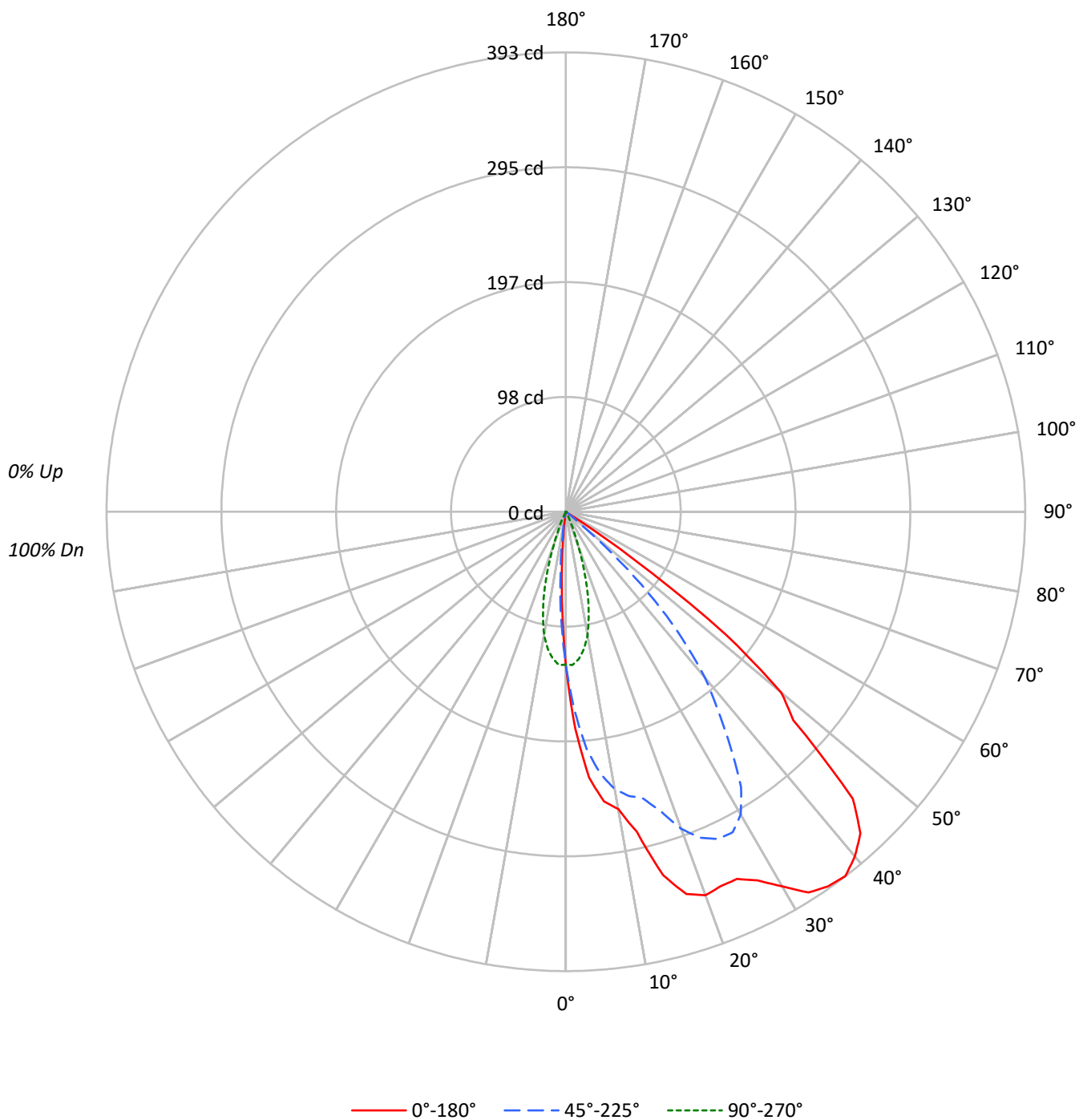
Lumens per Lamp: N/A
Luminaire Lumens: 242.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82		
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73		
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66		
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22527	22527	22527	22527	22527
5°	39469	35181	21852	9076	5221
10°	45171	42111	18695	997	350
15°	57412	45216	12820	196	125
20°	63981	52893	5627	0	0
25°	65863	58680	1596	0	0
30°	73580	59481	219	0	0
35°	82248	51636	0	0	0
40°	86511	41569	0	0	0
45°	84588	26256	0	0	0
50°	64411	5359	0	0	0
55°	21108	0	0	0	0
60°	0	0	0	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	395	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84588 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	4.9
10°-20°	35.0	14.5
20°-30°	56.9	23.5
30°-40°	67.7	28.0
40°-50°	55.3	22.9
50°-60°	14.7	6.1
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°	103.9	42.9
0°-40°	171.6	70.9
0°-60°	241.6	99.8
0°-90°	242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	242.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	131	131	131	131	131	
5°	228	204	126	52	30	22
15°	322	254	72	1	1	90
25°	347	309	8	0	0	163
35°	391	246	0	0	0	243
45°	347	108	0	0	0	249
55°	70	0	0	0	0	79
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8	130.8
2.5°	185.6	184.2	184.4	183.8	184.4	181.5	178.3	175.3	173.1	169.9	150.6
5°	228.3	226.1	225.4	224.5	223.6	219.9	217.0	213.3	209.0	203.5	168.1
7.5°	249.9	248.1	247.2	247.7	245.6	244.2	240.4	236.3	231.7	225.8	181.3
10°	258.3	256.5	256.3	256.1	255.8	254.9	253.1	249.5	245.4	240.8	188.8
12.5°	280.4	276.3	273.6	270.4	266.5	261.5	257.4	254.3	252.7	249.0	192.2
15°	322.0	318.2	315.2	311.1	303.8	293.1	283.4	270.9	259.9	253.6	190.8
17.5°	342.9	341.1	338.6	335.9	330.9	323.2	313.2	300.0	286.1	268.1	184.2
20°	349.1	348.2	346.4	345.2	341.8	336.4	329.5	319.3	306.3	288.6	174.0
22.5°	346.6	347.3	348.2	351.1	351.6	347.7	341.4	331.6	318.4	302.0	158.3
25°	346.6	346.1	346.1	352.3	356.1	354.3	349.8	340.9	327.5	308.8	139.0
27.5°	355.5	352.7	347.0	353.4	359.8	359.1	355.0	344.5	329.5	309.1	115.3
30°	370.0	364.1	354.8	360.7	366.6	364.1	357.5	344.1	325.0	299.1	86.4
32.5°	386.2	383.4	378.7	382.5	381.6	371.6	359.8	341.1	315.7	279.0	58.2
35°	391.2	391.6	388.4	387.8	382.5	372.3	359.8	332.7	296.1	245.6	34.6
37.5°	392.8	393.0	388.0	381.6	373.9	361.8	346.8	315.4	259.9	213.3	18.4
40°	384.8	384.6	376.4	368.6	360.0	348.2	326.3	279.0	225.6	184.9	6.6
42.5°	373.0	370.0	362.3	352.7	342.3	327.5	293.4	235.6	196.0	148.1	0.5
45°	347.3	344.5	338.4	328.2	316.6	295.6	241.7	202.4	159.4	107.8	0.0
47.5°	264.0	262.7	269.0	270.4	270.2	246.3	201.7	165.1	117.1	62.8	0.0
50°	240.4	238.6	232.2	224.0	209.5	189.4	161.7	122.4	68.7	20.0	0.0
52.5°	172.6	178.5	179.9	173.7	160.1	140.3	111.4	70.5	23.9	0.0	0.0
55°	70.3	66.6	69.4	72.8	75.5	69.4	51.4	25.0	0.2	0.0	0.0
57.5°	0.0	0.2	1.4	3.2	5.2	6.6	7.1	0.5	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	0.0	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	0.2	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	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	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	90°	112.5°	135°	157.5°	180°
0°	130.8	130.8	130.8	130.8	130.8
2.5°	131.2	111.0	91.4	80.7	75.5
5°	126.4	84.8	52.5	36.4	30.2
7.5°	118.5	58.2	20.9	8.6	6.1
10°	106.9	33.4	5.7	2.3	2.0
12.5°	90.3	15.2	2.0	1.6	1.6
15°	71.9	5.2	1.1	0.9	0.7
17.5°	50.5	1.4	0.5	0.0	0.0
20°	30.7	0.2	0.0	0.0	0.0
22.5°	17.1	0.0	0.0	0.0	0.0
25°	8.4	0.0	0.0	0.0	0.0
27.5°	3.6	0.0	0.0	0.0	0.0
30°	1.1	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.0	0.0	0.0
77.5°	0.5	0.2	0.2	0.0	0.0
80°	0.5	0.2	0.2	0.0	0.0
82.5°	0.5	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.2	0.0	0.0
87.5°	0.5	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)