

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: P1312123

Luminaire Tested: LDSQA3D02R459050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R459050DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

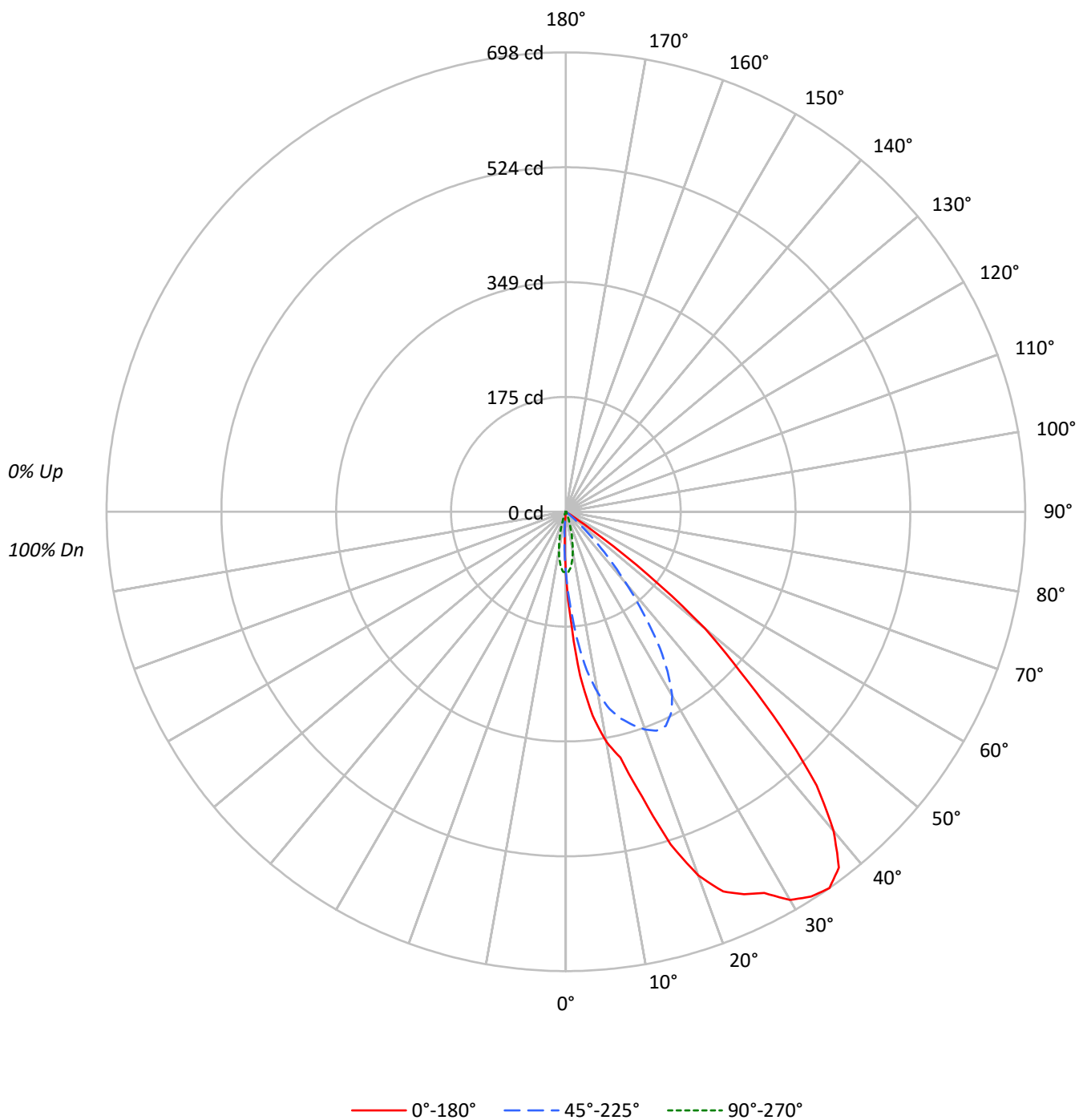
Lumens per Lamp: N/A
Luminaire Lumens: 296.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15827	15827	15827	15827	15827
5°	43220	33262	14660	2939	1106
10°	62082	48791	10598	280	227
15°	79913	58036	5634	89	0
20°	107711	64568	2144	0	0
25°	121826	68220	551	0	0
30°	135427	64293	60	0	0
35°	146793	51279	0	0	0
40°	142289	32194	0	0	0
45°	112792	15344	0	0	0
50°	73815	1929	0	0	0
55°	12671	0	0	0	0
60°	0	0	103	0	0
65°	0	122	122	0	0
70°	0	151	252	0	0
75°	0	200	333	0	0
80°	0	298	496	298	0
85°	0	593	988	593	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 112792 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	3.7
10°-20°	42.2	14.2
20°-30°	78.9	26.7
30°-40°	92.1	31.1
40°-50°	60.1	20.3
50°-60°	11.2	3.8
60°-70°	0.1	0.0
70°-80°	0.2	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°	132.1	44.6
0°-40°	224.2	75.7
0°-60°	295.4	99.8
0°-90°	296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	296.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	250	192	85	17	6	27
15°	448	326	32	0	0	134
25°	641	359	3	0	0	296
35°	698	244	0	0	0	428
45°	463	63	0	0	0	352
55°	42	0	0	0	0	73
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°	50°
0°	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
2.5°	162.1	163.4	160.7	159.7	156.2	157.0	151.2	148.8	145.1	139.0	136.0
5°	250.0	247.6	245.5	241.0	238.3	231.2	223.2	214.1	203.3	192.4	179.9
7.5°	312.7	310.9	310.1	306.3	301.0	293.6	283.2	271.8	257.7	243.1	224.2
10°	355.0	353.1	349.9	346.2	341.9	335.8	325.7	313.3	297.8	279.0	256.9
12.5°	382.6	382.3	377.0	372.8	367.5	362.1	351.8	341.7	326.5	307.1	282.2
15°	448.2	444.0	437.1	425.1	410.2	396.4	379.7	363.7	347.3	325.5	297.6
17.5°	530.1	525.3	513.6	498.4	474.5	448.2	419.5	394.3	369.6	340.1	307.1
20°	587.7	585.9	576.0	558.5	533.0	498.2	460.4	424.8	390.0	352.3	311.7
22.5°	624.6	623.6	619.6	607.6	581.6	542.5	493.9	446.1	404.1	360.0	310.3
25°	641.1	642.4	643.0	637.1	616.1	576.3	518.6	462.3	412.1	359.0	300.2
27.5°	652.8	652.8	654.9	652.3	631.0	589.0	528.2	467.9	409.4	345.9	279.0
30°	681.0	680.4	681.8	674.6	645.1	593.0	523.9	458.9	394.3	323.3	248.4
32.5°	693.2	693.7	693.5	682.0	647.8	590.4	513.6	441.6	366.4	288.0	208.0
35°	698.2	695.8	686.0	660.0	616.7	555.0	484.4	412.4	327.3	243.9	164.2
37.5°	681.5	674.6	652.8	617.2	564.3	505.1	436.0	360.0	275.5	191.3	123.5
40°	632.9	623.8	596.5	553.4	505.1	451.7	378.9	298.6	215.5	143.2	86.6
42.5°	564.1	553.7	524.2	486.7	442.6	386.6	314.0	233.8	157.8	98.8	55.0
45°	463.1	457.3	440.3	408.6	365.3	307.1	240.7	170.6	109.2	63.0	28.2
47.5°	358.2	350.7	338.5	316.7	280.6	225.3	168.4	115.8	70.1	31.1	5.8
50°	275.5	266.8	251.9	227.7	190.0	150.4	109.2	72.3	35.6	7.2	0.3
52.5°	158.6	160.5	153.3	137.9	116.9	90.1	63.2	36.4	8.0	0.3	0.0
55°	42.2	45.7	44.6	48.1	42.2	35.6	26.3	6.9	0.5	0.0	0.0
57.5°	0.0	0.0	0.3	0.5	1.6	2.4	0.8	0.3	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	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
2.5°	129.4	123.8	116.9	91.4	68.8	49.4	38.5	35.6
5°	167.9	154.4	136.8	84.8	42.5	17.0	7.7	6.4
7.5°	204.3	184.4	152.8	74.1	21.5	4.3	2.1	1.9
10°	232.5	205.6	164.5	60.6	8.0	1.6	1.3	1.3
12.5°	251.9	219.2	168.7	46.0	2.9	0.8	0.8	0.5
15°	263.0	224.5	164.7	31.6	1.1	0.5	0.0	0.0
17.5°	266.5	222.4	154.1	19.9	0.3	0.0	0.0	0.0
20°	263.6	212.0	137.4	11.7	0.0	0.0	0.0	0.0
22.5°	254.0	195.8	117.2	6.4	0.0	0.0	0.0	0.0
25°	236.2	173.0	93.5	2.9	0.0	0.0	0.0	0.0
27.5°	207.2	143.5	70.4	1.1	0.0	0.0	0.0	0.0
30°	174.3	111.9	50.0	0.3	0.0	0.0	0.0	0.0
32.5°	136.0	82.4	32.1	0.0	0.0	0.0	0.0	0.0
35°	102.3	57.7	19.1	0.0	0.0	0.0	0.0	0.0
37.5°	71.2	36.4	10.1	0.0	0.0	0.0	0.0	0.0
40°	44.4	19.7	3.5	0.0	0.0	0.0	0.0	0.0
42.5°	24.7	6.9	0.3	0.0	0.0	0.0	0.0	0.0
45°	5.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
60°	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
65°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
67.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0
70°	0.3	0.3	0.3	0.5	0.3	0.0	0.0	0.0
72.5°	0.3	0.3	0.5	0.5	0.3	0.0	0.0	0.0
75°	0.3	0.3	0.5	0.5	0.3	0.0	0.0	0.0
77.5°	0.3	0.5	0.5	0.5	0.3	0.3	0.0	0.0
80°	0.3	0.5	0.5	0.5	0.5	0.3	0.0	0.0
82.5°	0.3	0.5	0.5	0.5	0.5	0.3	0.0	0.0
85°	0.3	0.5	0.5	0.5	0.3	0.3	0.0	0.0
87.5°	0.3	0.5	0.5	0.5	0.5	0.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)