

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: P1320039

Luminaire Tested: LDSQA3D09R709840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R709840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

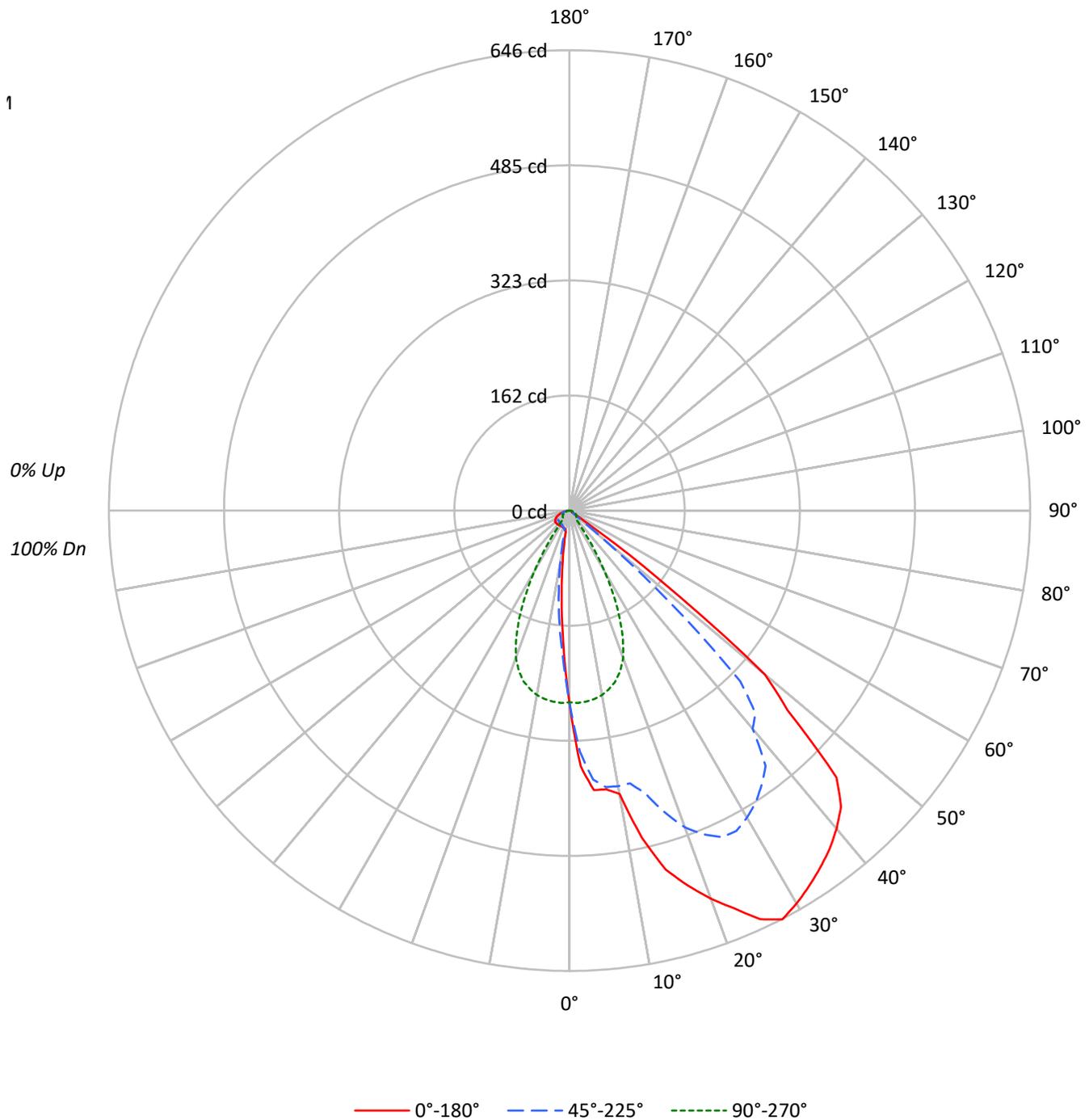
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 511.0 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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			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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	46328	46328	46328	46328	46328
5°	68063	65453	46505	27765	21748
10°	70581	68640	45941	13291	5369
15°	92947	73191	44254	4761	4654
20°	106153	86708	40284	4564	4674
25°	120211	96077	31620	4409	4637
30°	126598	98936	19608	4375	4952
35°	128733	98752	6455	4520	5235
40°	131003	89816	3125	4834	5733
45°	128940	82469	3239	5090	6211
50°	95866	15218	3269	5600	6832
55°	7657	2102	3483	5915	7326
60°	1584	2204	3410	5993	7578
65°	1671	2119	3301	5909	7784
70°	1460	2065	3223	5539	7604
75°	1131	1930	2728	5390	7320
80°	1190	1686	2876	5157	6943
85°	1186	2371	3359	4545	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 130499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	4.8
10°-20°	68.9	13.5
20°-30°	115.6	22.6
30°-40°	139.0	27.2
40°-50°	110.2	21.6
50°-60°	35.3	6.9
60°-70°	9.9	1.9
70°-80°	5.9	1.1
80°-90°	1.9	0.4
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°	208.9	40.9
0°-40°	348.0	68.1
0°-60°	493.5	96.6
0°-90°	511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	269	269	269	269	269	
5°	394	379	269	161	126	37
15°	521	410	248	27	26	147
25°	633	506	166	23	24	289
35°	612	470	31	22	25	384
45°	529	339	13	21	26	380
55°	26	7	12	20	24	80
65°	4	5	8	14	19	4
75°	2	3	4	8	11	2
85°	1	1	2	2	3	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°	269.0	269.0	269.0	269.0	269.0	269.0	269.0	269.0	269.0	269.0	269.0
2.5°	358.9	361.2	361.2	358.3	359.5	354.9	351.4	346.2	345.0	338.6	330.5
5°	393.7	392.5	392.5	390.2	391.4	389.6	387.9	386.7	383.3	378.6	374.0
7.5°	394.3	395.4	396.0	395.4	397.8	396.0	396.0	396.0	393.7	391.4	386.7
10°	403.6	401.8	400.1	396.0	393.7	392.0	392.0	392.5	393.7	392.5	389.6
12.5°	470.2	463.9	461.0	451.1	443.6	430.8	416.3	405.3	395.4	392.0	389.6
15°	521.3	520.1	514.3	505.0	495.8	480.7	463.9	447.0	429.1	410.5	397.2
17.5°	551.4	549.1	543.3	533.4	522.4	508.5	495.2	482.4	465.0	444.1	422.7
20°	579.2	574.0	566.5	554.9	543.9	530.5	516.0	503.9	489.4	473.1	448.2
22.5°	604.2	599.5	587.4	571.7	560.7	547.9	535.2	523.6	510.2	491.7	469.1
25°	632.6	622.2	602.4	582.1	568.8	558.4	549.1	539.8	525.9	505.6	478.9
27.5°	646.5	632.0	610.6	590.3	577.5	566.5	556.6	547.4	531.7	506.8	476.0
30°	636.6	628.5	613.5	597.8	587.4	576.9	565.3	551.4	526.5	497.5	469.1
32.5°	625.1	621.0	614.0	604.8	598.4	587.9	571.7	549.1	514.3	485.9	455.2
35°	612.3	610.6	608.2	604.2	600.1	590.3	570.0	536.9	502.1	469.7	440.1
37.5°	599.0	597.2	599.0	598.4	594.9	582.1	551.4	520.7	484.7	451.7	394.3
40°	582.7	581.6	584.5	587.4	583.3	566.5	533.4	496.3	464.4	399.5	379.8
42.5°	563.6	563.0	568.2	570.5	564.8	539.8	501.0	473.7	406.5	385.6	339.2
45°	529.4	530.5	532.9	535.8	532.3	505.0	469.7	419.8	390.2	338.6	193.1
47.5°	414.6	415.7	427.3	451.7	468.5	459.2	429.1	392.0	349.1	193.7	60.9
50°	357.8	356.6	357.2	363.0	376.3	389.1	379.8	359.5	208.2	56.8	7.5
52.5°	157.1	174.5	193.1	245.3	278.9	314.3	321.2	225.0	67.8	7.5	7.5
55°	25.5	26.7	33.6	49.3	88.7	133.9	162.4	75.4	7.0	7.0	7.0
57.5°	5.2	5.2	5.2	5.8	8.7	18.6	21.5	6.4	6.4	6.4	7.0
60°	4.6	4.6	4.6	4.6	5.2	5.2	5.2	5.8	5.8	6.4	6.4
62.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.2	5.2	5.8	5.8	6.4
65°	4.1	4.1	4.1	4.1	4.6	4.6	4.6	4.6	5.2	5.2	5.8
67.5°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.6	4.6	4.6	5.2
70°	2.9	2.9	2.9	2.9	3.5	3.5	3.5	3.5	4.1	4.1	4.1
72.5°	2.3	2.3	2.3	2.3	2.9	2.9	2.9	2.9	3.5	3.5	3.5
75°	1.7	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9	2.9
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	2.3
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7
82.5°	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	269.0	269.0	269.0	269.0	269.0	269.0	269.0	269.0
2.5°	325.3	317.2	306.1	270.2	237.1	207.0	191.9	190.2
5°	366.5	358.9	340.4	269.0	205.8	160.6	133.4	125.8
7.5°	382.1	375.7	359.5	266.7	176.3	115.4	84.7	73.1
10°	386.2	382.1	368.2	262.7	145.5	76.0	40.0	30.7
12.5°	387.9	385.0	371.7	256.3	114.8	39.4	27.3	27.3
15°	390.8	387.9	375.1	248.2	84.7	26.7	26.1	26.1
17.5°	403.6	394.3	379.8	236.0	55.7	25.5	25.5	25.5
20°	424.4	404.1	382.1	219.8	34.8	24.9	24.9	25.5
22.5°	441.8	414.6	381.5	195.4	25.5	23.8	24.4	24.9
25°	449.4	419.2	376.3	166.4	22.0	23.2	24.4	24.4
27.5°	448.2	421.0	371.7	133.4	20.9	22.6	23.8	24.9
30°	441.8	416.3	361.2	98.6	19.7	22.0	23.8	24.9
32.5°	430.8	398.3	340.4	63.8	19.1	22.0	23.8	24.9
35°	394.9	369.3	310.2	30.7	18.6	21.5	24.4	24.9
37.5°	374.0	338.6	236.6	15.1	18.0	21.5	24.4	24.9
40°	340.4	252.8	106.7	13.9	18.0	21.5	24.4	25.5
42.5°	214.0	103.8	17.4	13.3	17.4	21.5	24.4	25.5
45°	78.3	13.9	9.3	13.3	17.4	20.9	24.4	25.5
47.5°	8.1	8.1	8.7	12.8	16.8	20.9	24.4	25.5
50°	7.5	8.1	8.7	12.2	16.2	20.9	23.8	25.5
52.5°	7.5	8.1	8.7	12.2	15.7	20.3	23.8	25.5
55°	7.5	8.1	8.1	11.6	15.1	19.7	23.2	24.4
57.5°	7.0	7.5	8.1	11.0	14.5	18.6	22.6	23.8
60°	7.0	7.5	8.1	9.9	13.9	17.4	21.5	22.0
62.5°	6.4	7.0	7.5	9.3	12.8	16.2	19.7	20.9
65°	6.4	6.4	7.0	8.1	11.6	14.5	18.0	19.1
67.5°	5.2	5.8	5.8	7.0	9.9	12.8	16.2	17.4
70°	4.6	4.6	5.2	6.4	8.7	11.0	13.9	15.1
72.5°	4.1	4.1	4.1	5.2	7.5	9.9	12.2	13.3
75°	3.5	3.5	3.5	4.1	6.4	8.1	10.4	11.0
77.5°	2.9	2.9	2.9	3.5	5.2	7.0	8.1	9.3
80°	2.3	2.3	2.3	2.9	4.1	5.2	6.4	7.0
82.5°	1.7	1.7	1.7	2.3	2.9	3.5	4.6	4.6
85°	1.2	1.2	1.2	1.7	1.7	2.3	2.9	2.9
87.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)