

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: P1320038

Luminaire Tested: LDSQA3D09R709840DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R709840DE010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

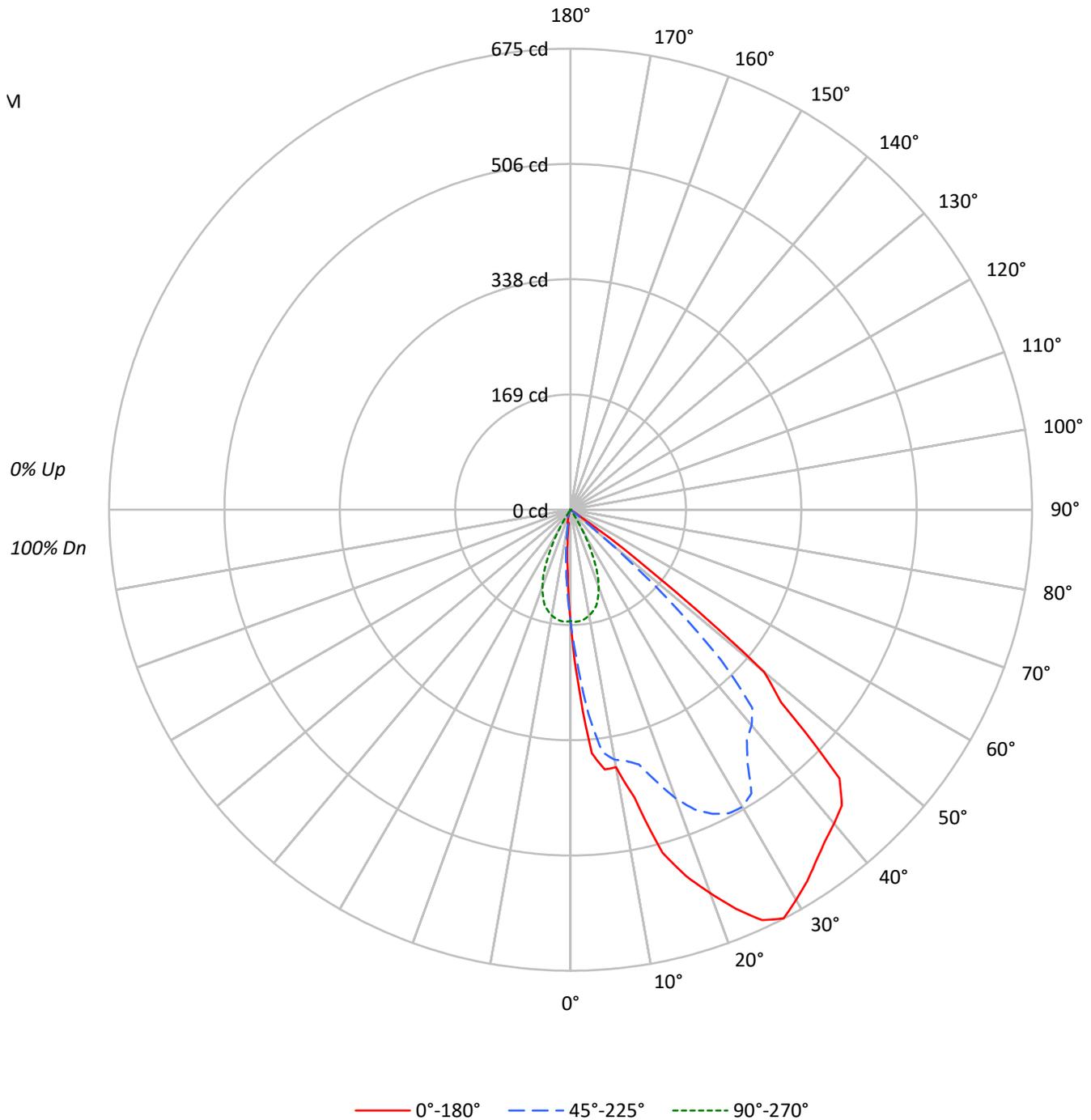
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 439.0 lumens
Efficiency: N/A
Efficacy: 39.9 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
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 (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28055	28055	28055	28055	28055
5°	61909	51951	28266	12845	8454
10°	66961	65003	27526	3568	3690
15°	92679	68805	25960	3637	2657
20°	109452	82437	22030	2163	788
25°	125969	93360	15544	361	0
30°	131212	99910	7139	0	0
35°	131803	94694	399	0	0
40°	134825	92626	0	0	0
45°	135492	75893	0	0	0
50°	98920	15781	0	0	0
55°	5585	0	0	0	0
60°	0	207	207	0	0
65°	0	0	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	595	595	0
85°	0	1186	1186	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 138050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	4.1
10°-20°	59.5	13.6
20°-30°	107.0	24.4
30°-40°	130.1	29.6
40°-50°	100.4	22.9
50°-60°	23.4	5.3
60°-70°	0.1	0.0
70°-80°	0.3	0.1
80°-90°	0.3	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°	184.3	42.0
0°-40°	314.4	71.6
0°-60°	438.2	99.8
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	163	163	163	163	163	
5°	358	300	164	74	49	34
15°	520	386	146	20	15	145
25°	663	491	82	2	0	302
35°	627	450	2	0	0	394
45°	556	312	0	0	0	393
55°	19	0	0	0	0	76
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	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°	162.9	162.9	162.9	162.9	162.9	162.9	162.9	162.9	162.9	162.9	162.9
2.5°	254.0	254.0	255.2	254.6	249.0	246.6	238.5	234.2	232.9	223.0	219.3
5°	358.1	358.7	355.6	355.0	348.8	344.4	337.6	327.1	316.6	300.5	286.2
7.5°	383.5	382.9	382.2	382.2	381.0	378.5	375.4	372.3	368.0	358.1	346.9
10°	382.9	382.9	382.2	382.2	381.6	382.2	381.6	379.8	377.9	371.7	365.5
12.5°	431.2	427.5	422.5	415.1	402.7	393.4	382.9	379.8	378.5	376.7	372.9
15°	519.8	516.7	506.1	493.1	480.7	459.7	442.9	420.0	402.1	385.9	377.9
17.5°	562.5	564.4	552.6	544.5	532.8	516.0	496.2	472.7	447.3	416.9	392.8
20°	597.2	599.1	589.1	581.1	567.5	550.1	532.8	507.4	483.2	449.8	418.2
22.5°	632.5	633.7	624.5	612.7	597.2	579.2	556.9	530.9	504.9	475.2	441.7
25°	662.9	661.6	646.1	629.4	614.5	595.3	573.7	548.3	523.5	491.3	459.7
27.5°	674.6	674.0	656.7	640.6	623.2	597.2	578.0	555.7	529.7	501.2	469.0
30°	659.8	669.7	658.5	646.8	625.7	599.7	581.1	554.5	530.3	502.4	465.9
32.5°	644.3	656.7	653.0	647.4	622.6	602.2	578.0	553.2	524.7	492.5	436.7
35°	626.9	639.9	640.6	634.4	612.1	591.6	569.3	543.3	511.1	450.4	409.5
37.5°	611.4	623.8	627.6	614.5	597.2	569.9	549.5	522.2	464.0	423.1	402.1
40°	599.7	609.0	614.5	594.1	576.8	550.1	526.6	478.9	426.2	412.0	382.2
42.5°	587.3	596.0	598.4	576.1	549.5	524.1	490.0	429.9	414.4	393.4	313.5
45°	556.3	566.8	560.6	539.0	519.1	492.5	441.7	415.7	399.0	311.6	192.7
47.5°	417.5	429.3	446.0	452.2	459.0	439.8	412.0	402.7	327.7	188.9	60.1
50°	369.2	367.4	367.4	370.5	376.0	382.2	390.3	339.5	197.0	58.9	0.0
52.5°	150.5	158.0	194.5	227.4	265.1	302.9	314.7	208.2	76.8	1.2	0.0
55°	18.6	18.6	26.0	44.6	73.7	118.9	133.8	66.9	5.6	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	5.0	13.6	9.3	2.5	0.6	0.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	162.9	162.9	162.9	162.9	162.9	162.9	162.9	162.9
2.5°	213.1	205.7	195.1	164.2	137.5	114.0	100.4	93.5
5°	272.6	254.6	230.5	163.5	111.5	74.3	55.8	48.9
7.5°	329.6	309.1	268.2	161.1	85.5	43.4	24.2	19.2
10°	354.4	339.5	302.9	157.4	61.9	20.4	20.4	21.1
12.5°	364.3	353.1	323.4	151.8	40.9	19.8	21.1	19.8
15°	371.1	360.5	333.3	145.6	23.5	20.4	16.7	14.9
17.5°	374.8	362.4	336.4	133.8	15.5	17.3	10.5	8.7
20°	386.6	366.7	338.9	120.2	14.9	11.8	5.6	4.3
22.5°	406.4	375.4	339.5	103.5	11.8	6.8	1.9	0.0
25°	424.4	387.2	341.3	81.8	3.7	1.9	0.0	0.0
27.5°	433.0	390.9	340.7	57.6	0.0	0.0	0.0	0.0
30°	422.5	381.6	335.1	35.9	0.0	0.0	0.0	0.0
32.5°	397.7	374.8	317.8	15.5	0.0	0.0	0.0	0.0
35°	389.7	359.9	278.2	1.9	0.0	0.0	0.0	0.0
37.5°	371.7	317.2	204.4	0.0	0.0	0.0	0.0	0.0
40°	319.7	229.2	97.3	0.0	0.0	0.0	0.0	0.0
42.5°	211.2	97.9	5.6	0.0	0.0	0.0	0.0	0.0
45°	74.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	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	0.0	0.0	0.0	0.0	0.0
60°	0.6	0.6	0.6	0.6	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
65°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
70°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
75°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
77.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)