

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: P1314552

Luminaire Tested: LDSQA3D09R659730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R659730DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

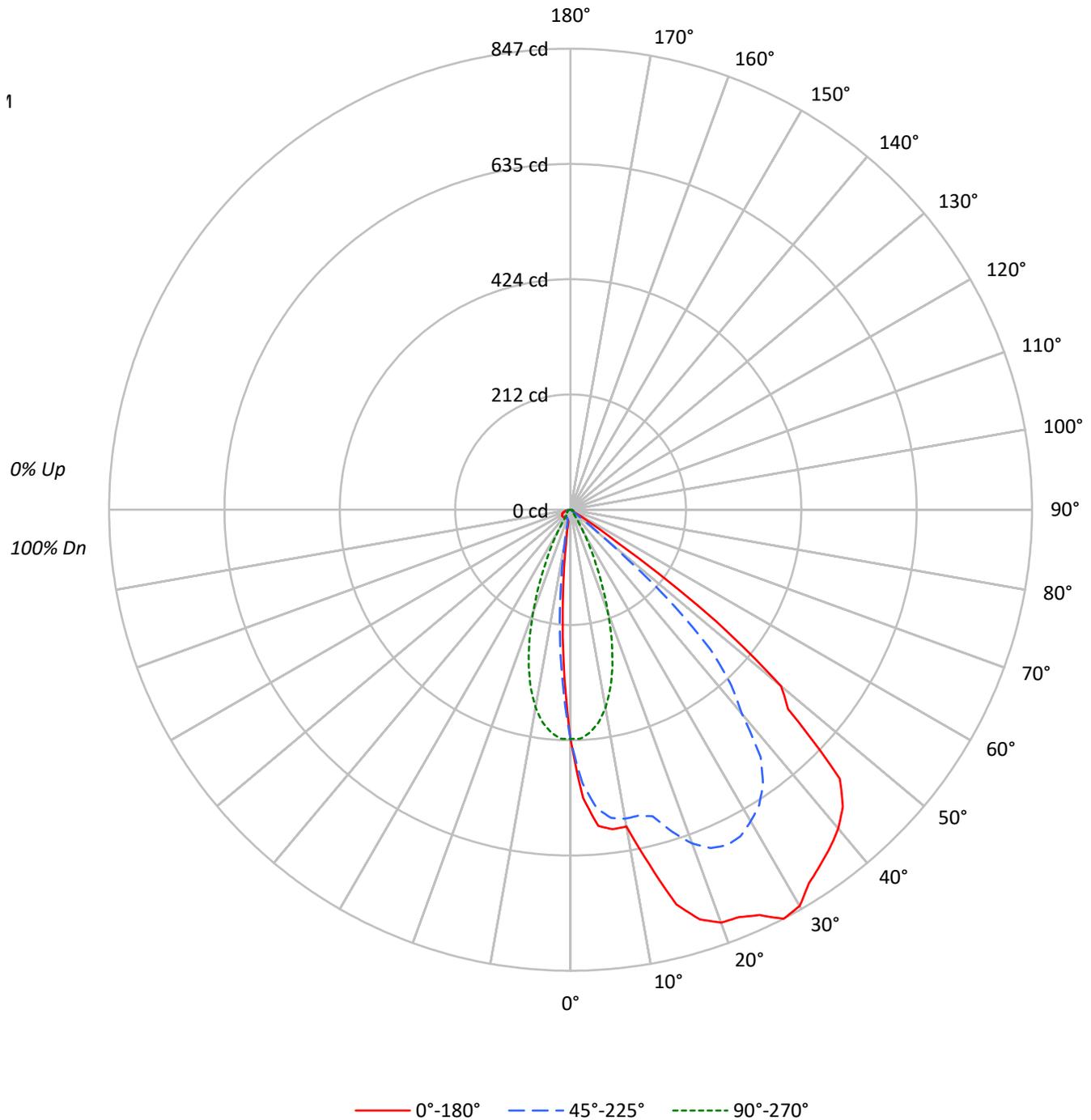
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 631.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	
RW	70	50	30	10	70	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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	72506	72506	72506	72506	72506
5°	100789	95119	70967	39002	27436
10°	103319	100801	64565	10895	4022
15°	133866	103948	52848	3512	3388
20°	147940	119587	36783	3116	3244
25°	156126	129218	20808	2983	3230
30°	167186	131450	9386	3003	3381
35°	167776	129448	3028	3175	3721
40°	171898	109982	2068	3395	4137
45°	170248	88631	2070	3678	4481
50°	135118	20899	2117	4046	5091
55°	32098	1171	2162	4534	5705
60°	1137	1343	2480	4753	6097
65°	1345	1345	2404	5094	6683
70°	1007	1309	2316	4935	6949
75°	865	1331	2196	5257	6987
80°	694	1289	2579	5157	7141
85°	1383	2569	2569	5138	6521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 170565 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	5.6
10°-20°	92.5	14.7
20°-30°	145.3	23.0
30°-40°	166.3	26.3
40°-50°	133.6	21.2
50°-60°	43.5	6.9
60°-70°	7.7	1.2
70°-80°	5.1	0.8
80°-90°	1.8	0.3
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°	273.0	43.3
0°-40°	439.2	69.6
0°-60°	616.3	97.7
0°-90°	631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	631.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	421	421	421	421	421	
5°	583	550	410	226	159	55
15°	751	583	296	20	19	209
25°	822	680	110	16	17	383
35°	798	616	14	15	18	501
45°	699	364	8	15	18	503
55°	107	4	7	15	19	153
65°	3	3	6	12	16	3
75°	1	2	3	8	10	2
85°	1	1	1	3	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°	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0
2.5°	529.8	527.9	530.5	525.9	525.2	520.7	518.0	516.7	510.8	503.0	495.7
5°	583.0	575.1	577.0	576.4	573.1	571.1	568.5	565.2	557.4	550.2	541.0
7.5°	592.1	585.6	586.9	587.5	585.6	584.9	584.3	583.0	577.7	571.1	563.3
10°	590.8	584.3	583.6	581.6	579.7	580.3	580.3	580.3	579.0	576.4	573.8
12.5°	666.9	657.7	655.7	642.0	629.5	607.9	594.1	581.0	575.1	575.7	573.8
15°	750.8	750.2	743.6	730.5	709.5	689.8	658.4	634.8	604.6	583.0	573.8
17.5°	788.9	788.2	782.3	771.1	756.1	737.7	714.8	687.2	653.8	620.3	592.8
20°	807.2	811.8	805.2	796.1	781.6	764.6	743.0	718.0	686.6	652.5	619.7
22.5°	809.8	815.7	809.8	803.3	792.8	781.6	763.3	737.7	705.6	672.8	640.7
25°	821.6	823.6	811.1	802.6	792.8	784.9	770.5	748.2	715.4	680.0	648.5
27.5°	847.2	838.7	812.5	800.7	791.5	784.3	770.5	747.5	712.1	676.1	643.3
30°	840.7	837.4	814.4	803.3	795.4	788.2	771.1	741.6	699.0	661.0	626.9
32.5°	813.8	820.3	812.5	808.5	804.6	795.4	770.5	730.5	682.6	643.9	598.0
35°	798.0	805.9	806.6	806.6	802.0	788.2	758.7	714.1	666.2	615.7	554.1
37.5°	782.3	788.9	792.8	795.4	788.9	769.2	731.8	691.8	639.3	573.1	464.9
40°	764.6	769.2	772.5	773.8	763.9	738.4	704.3	659.0	600.0	489.2	415.1
42.5°	739.7	742.3	741.6	741.0	730.5	702.3	670.2	623.0	506.2	436.1	346.2
45°	699.0	696.4	700.3	700.3	686.6	665.6	623.0	531.1	453.1	363.9	223.0
47.5°	541.6	543.6	562.6	593.4	612.5	606.6	548.9	464.9	381.0	238.7	74.1
50°	504.3	502.3	503.0	506.2	508.2	491.8	450.5	392.8	251.8	78.0	5.2
52.5°	338.4	340.3	355.4	390.2	401.3	389.5	350.2	262.3	91.8	5.2	4.6
55°	106.9	114.1	122.6	141.0	173.1	193.4	189.5	93.1	5.9	3.9	4.6
57.5°	3.9	3.9	5.2	9.2	17.7	28.9	30.2	5.9	4.6	4.6	4.6
60°	3.3	3.3	3.3	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.9
62.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9	3.9	3.9	3.9
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.9
67.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3	3.3	3.3	3.3
70°	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.3
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	2.6
75°	1.3	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0
80°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	421.0	421.0	421.0	421.0	421.0	421.0	421.0	421.0
2.5°	491.8	483.9	468.2	421.0	371.8	322.6	291.8	283.9
5°	530.5	521.3	499.0	410.5	310.8	225.6	177.0	158.7
7.5°	554.1	543.0	516.7	394.1	242.0	131.1	78.7	63.0
10°	564.6	554.8	525.2	369.2	175.1	62.3	27.5	23.0
12.5°	569.2	561.3	528.5	336.4	114.1	27.5	20.3	19.7
15°	571.1	562.6	527.2	296.4	64.9	19.7	19.0	19.0
17.5°	573.1	563.3	519.3	250.5	36.1	18.4	17.7	18.4
20°	588.9	560.7	505.6	200.7	23.6	17.0	17.0	17.7
22.5°	604.6	560.0	481.3	153.4	18.4	16.4	17.0	17.0
25°	609.8	553.4	450.5	109.5	15.7	15.7	16.4	17.0
27.5°	600.0	534.4	409.2	74.1	13.8	15.7	16.4	17.0
30°	577.0	502.3	359.3	47.2	13.1	15.1	16.4	17.0
32.5°	534.4	438.7	303.6	28.2	12.5	15.1	17.0	17.0
35°	449.2	367.9	240.7	14.4	12.5	15.1	17.0	17.7
37.5°	392.8	306.9	167.9	9.8	12.5	15.1	17.0	17.7
40°	325.9	221.6	70.2	9.2	12.5	15.1	17.0	18.4
42.5°	225.6	96.4	11.1	8.5	11.8	15.1	17.7	18.4
45°	81.3	12.5	5.2	8.5	11.8	15.1	17.7	18.4
47.5°	7.2	4.6	5.2	8.5	11.8	15.1	17.7	19.0
50°	4.6	4.6	4.6	7.9	11.8	15.1	17.7	19.0
52.5°	4.6	4.6	4.6	7.9	11.1	15.1	18.4	19.0
55°	4.6	4.6	4.6	7.2	11.1	15.1	17.7	19.0
57.5°	4.6	4.6	5.2	7.2	11.1	14.4	17.7	18.4
60°	4.6	4.6	4.6	7.2	10.5	13.8	17.0	17.7
62.5°	3.9	4.6	4.6	6.6	9.8	13.1	16.4	17.0
65°	3.9	3.9	4.6	5.9	9.2	12.5	15.1	16.4
67.5°	3.3	3.9	3.9	5.2	7.9	11.1	13.8	15.1
70°	3.3	3.3	3.3	4.6	7.2	9.8	13.1	13.8
72.5°	2.6	3.3	3.3	3.9	5.9	8.5	11.1	12.5
75°	2.6	2.6	2.6	3.3	5.2	7.9	9.8	10.5
77.5°	2.0	2.0	2.6	2.6	4.6	5.9	8.5	9.2
80°	2.0	2.0	2.0	2.6	3.3	5.2	6.6	7.2
82.5°	1.3	1.3	1.3	2.0	2.6	3.3	4.6	5.2
85°	1.3	1.3	1.3	1.3	2.0	2.6	3.3	3.3
87.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)