

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: P1311228

Luminaire Tested: LDSQA3D05R659040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311228
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: LDSQA3D05R659040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

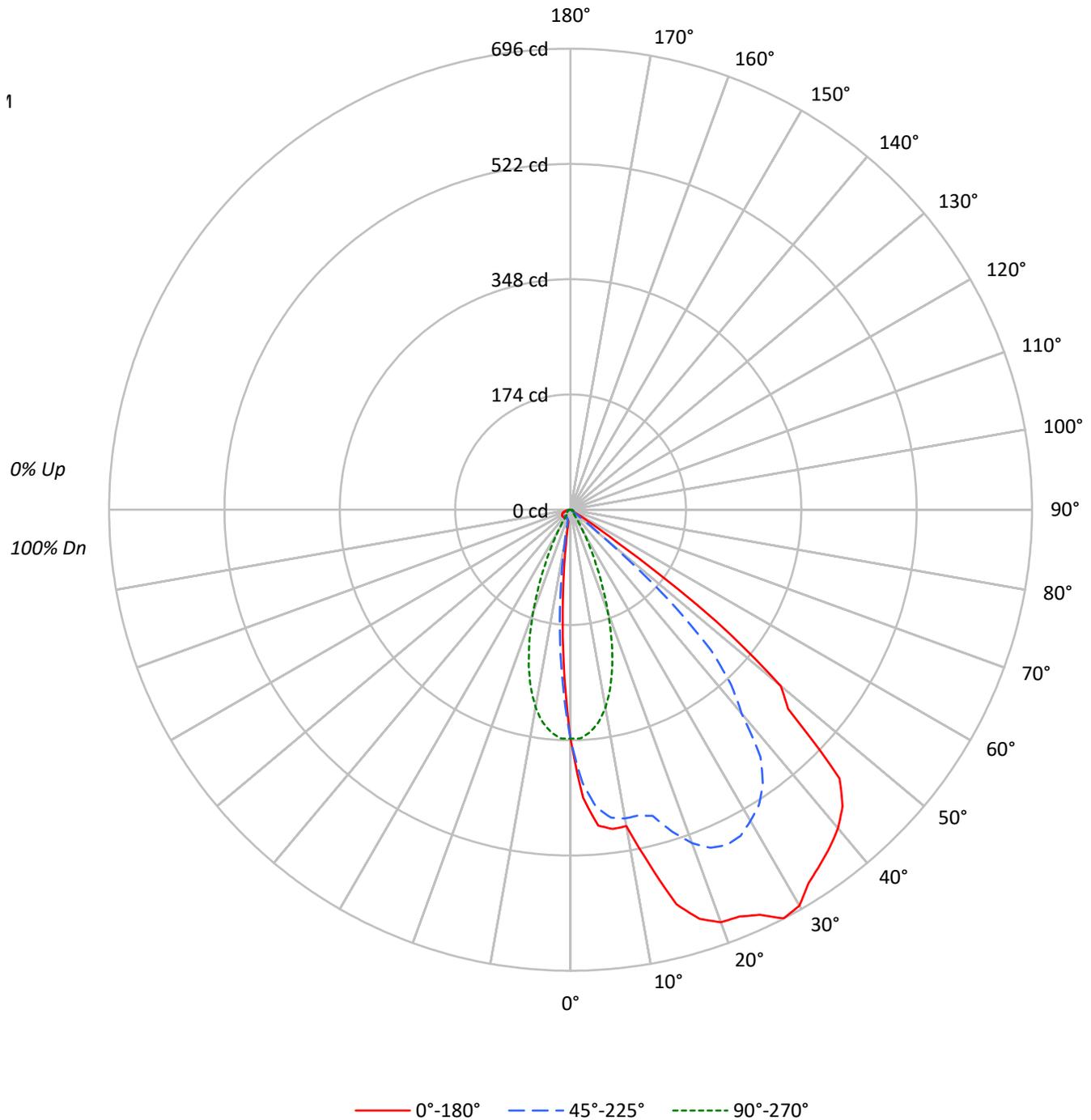
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 518.0 lumens
Efficiency: N/A
Efficacy: 71.9 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): 7.2
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				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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	59520	59520	59520	59520	59520
5°	82741	78073	58261	32017	22526
10°	84817	82753	53006	8936	3288
15°	109903	85333	43380	2871	2781
20°	121457	98162	30185	2566	2657
25°	128173	106073	17083	2451	2660
30°	137237	107904	7716	2466	2784
35°	137732	106279	2481	2607	3049
40°	141120	90288	1686	2788	3395
45°	139754	72776	1705	3020	3678
50°	110923	17174	1742	3322	4180
55°	26333	961	1772	3723	4684
60°	930	1102	2032	3892	4994
65°	1100	1100	1956	4157	5501
70°	806	1108	1913	4079	5690
75°	732	1065	1797	4325	5723
80°	496	1091	2182	4265	5852
85°	988	2174	2174	4347	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 140022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	5.6
10°-20°	75.9	14.7
20°-30°	119.3	23.0
30°-40°	136.5	26.3
40°-50°	109.7	21.2
50°-60°	35.7	6.9
60°-70°	6.3	1.2
70°-80°	4.2	0.8
80°-90°	1.5	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°	224.1	43.3
0°-40°	360.6	69.6
0°-60°	506.0	97.7
0°-90°	518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	346	346	346	346	346	
5°	479	452	337	185	130	45
15°	616	479	243	16	16	172
25°	674	558	90	13	14	314
35°	655	506	12	12	14	411
45°	574	299	7	12	15	413
55°	88	3	6	12	16	125
65°	3	3	5	10	14	2
75°	1	2	3	6	9	1
85°	0	1	1	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°	345.6	345.6	345.6	345.6	345.6	345.6	345.6	345.6	345.6	345.6	345.6
2.5°	435.0	433.3	435.5	431.7	431.2	427.4	425.3	424.2	419.3	412.9	407.0
5°	478.6	472.1	473.7	473.2	470.5	468.9	466.7	464.0	457.6	451.6	444.1
7.5°	486.1	480.7	481.8	482.3	480.7	480.2	479.6	478.6	474.2	468.9	462.4
10°	485.0	479.6	479.1	477.5	475.9	476.4	476.4	476.4	475.3	473.2	471.0
12.5°	547.5	539.9	538.3	527.0	516.8	499.0	487.7	476.9	472.1	472.6	471.0
15°	616.4	615.8	610.4	599.7	582.4	566.3	540.5	521.1	496.3	478.6	471.0
17.5°	647.6	647.0	642.2	633.0	620.7	605.6	586.8	564.1	536.7	509.2	486.6
20°	662.7	666.4	661.0	653.5	641.7	627.7	609.9	589.4	563.6	535.6	508.7
22.5°	664.8	669.7	664.8	659.4	650.8	641.7	626.6	605.6	579.2	552.3	525.9
25°	674.5	676.1	665.9	658.9	650.8	644.4	632.5	614.2	587.3	558.2	532.4
27.5°	695.5	688.5	667.0	657.3	649.7	643.8	632.5	613.7	584.6	555.0	528.1
30°	690.1	687.4	668.6	659.4	653.0	647.0	633.0	608.8	573.8	542.6	514.6
32.5°	668.0	673.4	667.0	663.7	660.5	653.0	632.5	599.7	560.4	528.6	490.9
35°	655.1	661.6	662.1	662.1	658.3	647.0	622.8	586.2	546.9	505.5	454.9
37.5°	642.2	647.6	650.8	653.0	647.6	631.4	600.8	567.9	524.8	470.5	381.7
40°	627.7	631.4	634.1	635.2	627.1	606.1	578.1	541.0	492.6	401.6	340.7
42.5°	607.2	609.4	608.8	608.3	599.7	576.5	550.2	511.4	415.6	358.0	284.2
45°	573.8	571.7	574.9	574.9	563.6	546.4	511.4	436.0	372.0	298.8	183.0
47.5°	444.6	446.3	461.9	487.2	502.8	497.9	450.6	381.7	312.8	195.9	60.8
50°	414.0	412.3	412.9	415.6	417.2	403.7	369.8	322.4	206.7	64.1	4.3
52.5°	277.8	279.4	291.8	320.3	329.4	319.8	287.5	215.3	75.4	4.3	3.8
55°	87.7	93.7	100.7	115.7	142.1	158.8	155.6	76.4	4.8	3.2	3.8
57.5°	3.2	3.2	4.3	7.5	14.5	23.7	24.8	4.8	3.8	3.8	3.8
60°	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.2	3.2	3.2	3.2
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2	3.2	3.2	3.2
65°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.2
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7
70°	1.6	1.6	1.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2
75°	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
80°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	345.6	345.6	345.6	345.6	345.6	345.6	345.6	345.6
2.5°	403.7	397.3	384.4	345.6	305.2	264.8	239.5	233.1
5°	435.5	428.0	409.7	337.0	255.2	185.2	145.3	130.3
7.5°	454.9	445.7	424.2	323.5	198.6	107.7	64.6	51.7
10°	463.5	455.4	431.2	303.1	143.7	51.1	22.6	18.8
12.5°	467.3	460.8	433.9	276.2	93.7	22.6	16.7	16.1
15°	468.9	461.9	432.8	243.3	53.3	16.1	15.6	15.6
17.5°	470.5	462.4	426.3	205.6	29.6	15.1	14.5	15.1
20°	483.4	460.3	415.0	164.7	19.4	14.0	14.0	14.5
22.5°	496.3	459.7	395.1	126.0	15.1	13.5	14.0	14.0
25°	500.6	454.3	369.8	89.9	12.9	12.9	13.5	14.0
27.5°	492.6	438.7	335.9	60.8	11.3	12.9	13.5	14.0
30°	473.7	412.3	295.0	38.8	10.8	12.4	13.5	14.0
32.5°	438.7	360.1	249.2	23.1	10.2	12.4	14.0	14.0
35°	368.7	302.0	197.6	11.8	10.2	12.4	14.0	14.5
37.5°	322.4	251.9	137.8	8.1	10.2	12.4	14.0	14.5
40°	267.5	181.9	57.6	7.5	10.2	12.4	14.0	15.1
42.5°	185.2	79.1	9.2	7.0	9.7	12.4	14.5	15.1
45°	66.8	10.2	4.3	7.0	9.7	12.4	14.5	15.1
47.5°	5.9	3.8	4.3	7.0	9.7	12.4	14.5	15.6
50°	3.8	3.8	3.8	6.5	9.7	12.4	14.5	15.6
52.5°	3.8	3.8	3.8	6.5	9.2	12.4	15.1	15.6
55°	3.8	3.8	3.8	5.9	9.2	12.4	14.5	15.6
57.5°	3.8	3.8	4.3	5.9	9.2	11.8	14.5	15.1
60°	3.8	3.8	3.8	5.9	8.6	11.3	14.0	14.5
62.5°	3.2	3.8	3.8	5.4	8.1	10.8	13.5	14.0
65°	3.2	3.2	3.8	4.8	7.5	10.2	12.4	13.5
67.5°	2.7	3.2	3.2	4.3	6.5	9.2	11.3	12.4
70°	2.7	2.7	2.7	3.8	5.9	8.1	10.8	11.3
72.5°	2.2	2.7	2.7	3.2	4.8	7.0	9.2	10.2
75°	2.2	2.2	2.2	2.7	4.3	6.5	8.1	8.6
77.5°	1.6	1.6	2.2	2.2	3.8	4.8	7.0	7.5
80°	1.6	1.6	1.6	2.2	2.7	4.3	5.4	5.9
82.5°	1.1	1.1	1.1	1.6	2.2	2.7	3.8	4.3
85°	1.1	1.1	1.1	1.1	1.6	2.2	2.7	2.7
87.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)