

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: P1316670

Luminaire Tested: LDSQA3D13R709740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316670
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: LDSQA3D13R709740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

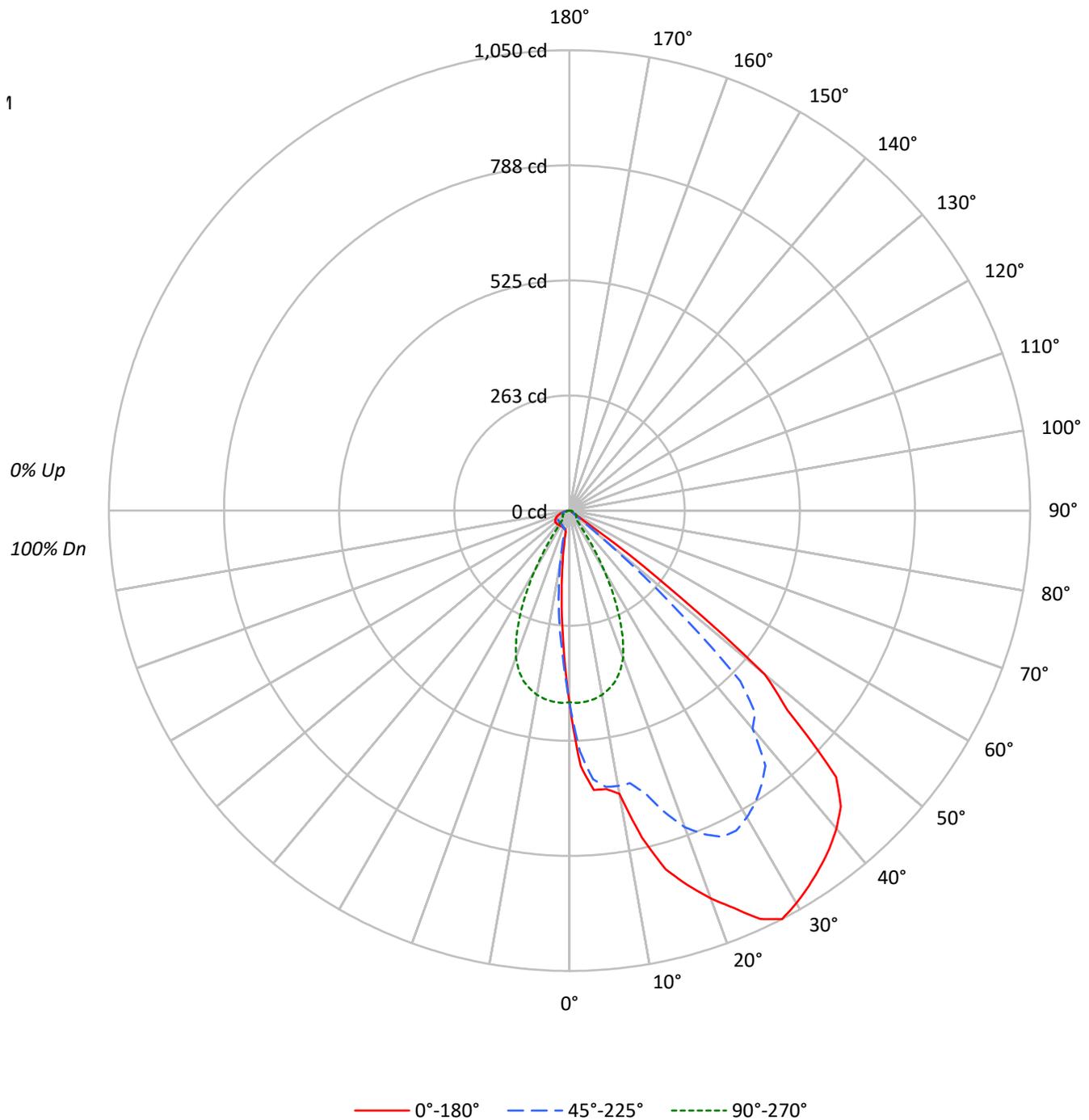
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 830.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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			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°	75261	75261	75261	75261	75261
5°	110557	106322	75549	45105	35337
10°	114633	111503	74604	21580	8726
15°	150965	118889	71872	7720	7560
20°	172444	140847	65411	7423	7588
25°	195252	156050	51364	7164	7525
30°	205647	160703	31838	7119	8054
35°	209089	160396	10491	7317	8515
40°	212793	145886	5081	7824	9308
45°	209437	133958	5285	8257	10083
50°	155695	24730	5305	9083	11092
55°	12431	3393	5645	9608	11890
60°	2583	3582	5511	9748	12331
65°	2690	3464	5379	9577	12674
70°	2367	3323	5237	9013	12337
75°	1863	3127	4392	8784	11911
80°	1884	2777	4661	8430	11207
85°	1778	3754	5533	7509	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 211946 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	4.8
10°-20°	111.8	13.5
20°-30°	187.8	22.6
30°-40°	225.8	27.2
40°-50°	179.0	21.6
50°-60°	57.3	6.9
60°-70°	16.0	1.9
70°-80°	9.6	1.2
80°-90°	3.0	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°	339.4	40.9
0°-40°	565.2	68.1
0°-60°	801.5	96.6
0°-90°	830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	830.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	437	437	437	437	437	
5°	640	615	437	261	204	60
15°	847	667	403	43	42	238
25°	1028	821	270	38	40	470
35°	994	763	50	35	40	623
45°	860	550	22	34	41	618
55°	41	11	19	32	40	130
65°	7	8	13	24	31	6
75°	3	5	7	13	18	3
85°	1	2	3	4	5	1
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°	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0
2.5°	583.0	586.7	586.7	582.0	583.9	576.4	570.7	562.3	560.4	550.0	536.8
5°	639.5	637.6	637.6	633.8	635.7	632.9	630.1	628.2	622.5	615.0	607.5
7.5°	640.4	642.3	643.2	642.3	646.1	643.2	643.2	643.2	639.5	635.7	628.2
10°	655.5	652.7	649.8	643.2	639.5	636.7	636.7	637.6	639.5	637.6	632.9
12.5°	763.8	753.4	748.7	732.7	720.5	699.8	676.2	658.3	642.3	636.7	632.9
15°	846.7	844.8	835.4	820.3	805.2	780.7	753.4	726.1	696.9	666.8	645.1
17.5°	895.6	891.9	882.5	866.4	848.6	826.0	804.3	783.6	755.3	721.4	686.6
20°	940.9	932.4	920.1	901.3	883.4	861.7	838.2	818.4	794.9	768.5	728.0
22.5°	981.3	973.8	954.0	928.6	910.7	890.0	869.3	850.4	828.8	798.6	761.9
25°	1027.5	1010.5	978.5	945.6	923.9	906.9	891.9	876.8	854.2	821.2	777.9
27.5°	1050.1	1026.6	991.7	958.7	938.0	920.1	904.1	889.1	863.6	823.1	773.2
30°	1034.1	1020.9	996.4	971.0	954.0	937.1	918.2	895.6	855.1	808.1	761.9
32.5°	1015.3	1008.7	997.4	982.3	971.9	955.0	928.6	891.9	835.4	789.2	739.3
35°	994.5	991.7	987.9	981.3	974.8	958.7	925.8	872.1	815.6	762.9	714.8
37.5°	972.9	970.0	972.9	971.9	966.3	945.6	895.6	845.7	787.3	733.7	640.4
40°	946.5	944.6	949.3	954.0	947.4	920.1	866.4	806.2	754.4	648.9	616.9
42.5°	915.4	914.5	923.0	926.7	917.3	876.8	813.7	769.4	660.2	626.3	550.9
45°	859.9	861.7	865.5	870.2	864.6	820.3	762.9	681.9	633.8	550.0	313.6
47.5°	673.4	675.3	694.1	733.7	761.0	745.9	696.9	636.7	567.0	314.6	98.9
50°	581.1	579.2	580.1	589.6	611.2	631.9	616.9	583.9	338.1	92.3	12.2
52.5°	255.2	283.5	313.6	398.4	453.0	510.5	521.8	365.4	110.2	12.2	12.2
55°	41.4	43.3	54.6	80.1	144.1	217.6	263.7	122.4	11.3	11.3	11.3
57.5°	8.5	8.5	8.5	9.4	14.1	30.1	34.8	10.4	10.4	10.4	11.3
60°	7.5	7.5	7.5	7.5	8.5	8.5	8.5	9.4	9.4	10.4	10.4
62.5°	7.5	7.5	7.5	7.5	7.5	7.5	8.5	8.5	9.4	9.4	10.4
65°	6.6	6.6	6.6	6.6	7.5	7.5	7.5	7.5	8.5	8.5	9.4
67.5°	5.7	5.7	5.7	5.7	6.6	6.6	6.6	7.5	7.5	7.5	8.5
70°	4.7	4.7	4.7	4.7	5.7	5.7	5.7	5.7	6.6	6.6	6.6
72.5°	3.8	3.8	3.8	3.8	4.7	4.7	4.7	4.7	5.7	5.7	5.7
75°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	3.8	4.7	4.7	4.7
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	3.8	3.8
80°	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8
82.5°	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0
2.5°	528.3	515.2	497.3	438.9	385.2	336.2	311.7	308.9
5°	595.2	583.0	552.8	437.0	334.3	260.9	216.6	204.4
7.5°	620.6	610.3	583.9	433.2	286.3	187.4	137.5	118.7
10°	627.2	620.6	598.0	426.6	236.4	123.4	65.0	49.9
12.5°	630.1	625.4	603.7	416.3	186.5	64.0	44.3	44.3
15°	634.8	630.1	609.3	403.1	137.5	43.3	42.4	42.4
17.5°	655.5	640.4	616.9	383.3	90.4	41.4	41.4	41.4
20°	689.4	656.4	620.6	356.9	56.5	40.5	40.5	41.4
22.5°	717.6	673.4	619.7	317.4	41.4	38.6	39.6	40.5
25°	729.9	680.9	611.2	270.3	35.8	37.7	39.6	39.6
27.5°	728.0	683.7	603.7	216.6	33.9	36.7	38.6	40.5
30°	717.6	676.2	586.7	160.1	32.0	35.8	38.6	40.5
32.5°	699.8	647.0	552.8	103.6	31.1	35.8	38.6	40.5
35°	641.4	599.9	503.9	49.9	30.1	34.8	39.6	40.5
37.5°	607.5	550.0	384.3	24.5	29.2	34.8	39.6	40.5
40°	552.8	410.6	173.3	22.6	29.2	34.8	39.6	41.4
42.5°	347.5	168.6	28.3	21.7	28.3	34.8	39.6	41.4
45°	127.1	22.6	15.1	21.7	28.3	33.9	39.6	41.4
47.5°	13.2	13.2	14.1	20.7	27.3	33.9	39.6	41.4
50°	12.2	13.2	14.1	19.8	26.4	33.9	38.6	41.4
52.5°	12.2	13.2	14.1	19.8	25.4	33.0	38.6	41.4
55°	12.2	13.2	13.2	18.8	24.5	32.0	37.7	39.6
57.5°	11.3	12.2	13.2	17.9	23.5	30.1	36.7	38.6
60°	11.3	12.2	13.2	16.0	22.6	28.3	34.8	35.8
62.5°	10.4	11.3	12.2	15.1	20.7	26.4	32.0	33.9
65°	10.4	10.4	11.3	13.2	18.8	23.5	29.2	31.1
67.5°	8.5	9.4	9.4	11.3	16.0	20.7	26.4	28.3
70°	7.5	7.5	8.5	10.4	14.1	17.9	22.6	24.5
72.5°	6.6	6.6	6.6	8.5	12.2	16.0	19.8	21.7
75°	5.7	5.7	5.7	6.6	10.4	13.2	17.0	17.9
77.5°	4.7	4.7	4.7	5.7	8.5	11.3	13.2	15.1
80°	3.8	3.8	3.8	4.7	6.6	8.5	10.4	11.3
82.5°	2.8	2.8	2.8	3.8	4.7	5.7	7.5	7.5
85°	1.9	1.9	1.9	2.8	2.8	3.8	4.7	4.7
87.5°	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)