

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: P1313562

Luminaire Tested: LDSQA3D09R559727DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R559727DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

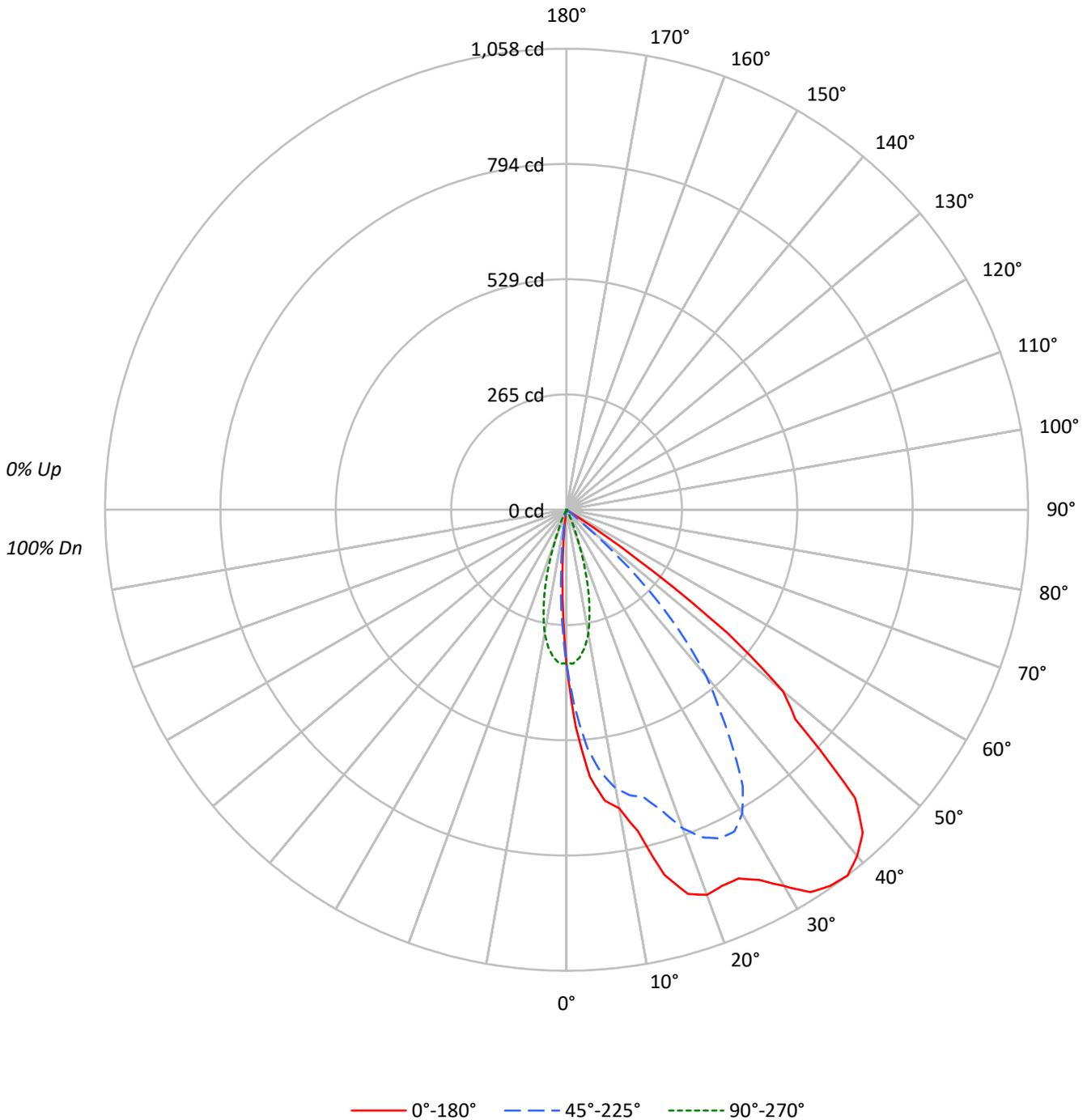
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
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				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	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82				82
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66				66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40				40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	60674	60674	60674	60674	60674
5°	106356	94808	58900	24463	14090
10°	121716	113479	50365	2676	962
15°	154691	121813	34518	553	321
20°	172371	142497	15157	0	0
25°	177447	158121	4314	0	0
30°	198249	160226	616	0	0
35°	221577	139119	0	0	0
40°	233072	111983	0	0	0
45°	227874	70730	0	0	0
50°	173512	14441	0	0	0
55°	56839	0	0	0	0
60°	0	0	0	0	0
65°	0	245	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	1190	595	0
85°	0	1186	1186	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 227874 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	4.9
10°-20°	94.3	14.5
20°-30°	153.4	23.5
30°-40°	182.3	28.0
40°-50°	149.1	22.9
50°-60°	39.5	6.1
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	279.9	42.9
0°-40°	462.3	70.9
0°-60°	650.9	99.8
0°-90°	652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	352	352	352	352	352	
5°	615	548	341	142	82	60
15°	868	683	194	3	2	243
25°	934	832	23	0	0	440
35°	1054	662	0	0	0	655
45°	936	290	0	0	0	672
55°	189	0	0	0	0	213
65°	0	1	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°	67.5°
0°	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3	352.3
2.5°	500.0	496.3	496.9	495.1	496.9	488.9	480.4	472.4	466.3	457.7	405.6
5°	615.2	609.0	607.2	604.8	602.3	592.5	584.5	574.7	563.1	548.4	452.8
7.5°	673.4	668.5	666.0	667.2	661.7	658.1	647.6	636.6	624.4	608.4	488.3
10°	696.0	691.1	690.5	689.9	689.3	686.9	682.0	672.2	661.1	648.9	508.6
12.5°	755.5	744.5	737.1	728.5	718.1	704.6	693.6	685.0	680.7	670.9	517.7
15°	867.6	857.2	849.2	838.2	818.6	789.8	763.4	729.7	700.3	683.2	514.1
17.5°	924.0	919.1	912.3	905.0	891.5	870.7	843.7	808.2	770.8	722.4	496.3
20°	940.5	938.1	933.2	930.1	920.9	906.2	887.8	860.3	825.3	777.5	468.7
22.5°	933.8	935.6	938.1	946.0	947.3	936.8	919.7	893.3	857.8	813.7	426.5
25°	933.8	932.6	932.6	949.1	959.5	954.6	942.4	918.5	882.3	832.1	374.4
27.5°	957.7	950.3	935.0	952.2	969.3	967.5	956.5	928.3	887.8	832.7	310.6
30°	996.9	981.0	955.8	971.8	987.7	981.0	963.2	927.0	875.6	805.7	232.8
32.5°	1040.4	1033.0	1020.2	1030.6	1028.1	1001.2	969.3	919.1	850.5	751.8	156.9
35°	1053.9	1055.1	1046.5	1044.7	1030.6	1003.0	969.3	896.4	797.8	661.7	93.1
37.5°	1058.2	1058.8	1045.3	1028.1	1007.3	974.8	934.4	849.8	700.3	574.7	49.6
40°	1036.7	1036.1	1014.0	993.2	969.9	938.1	879.2	751.8	607.8	498.1	17.8
42.5°	1004.9	996.9	976.1	950.3	922.1	882.3	790.4	634.8	528.2	398.9	1.2
45°	935.6	928.3	911.7	884.2	852.9	796.5	651.3	545.3	429.5	290.4	0.0
47.5°	711.4	707.7	724.8	728.5	727.9	663.6	543.5	444.8	315.5	169.1	0.0
50°	647.6	642.7	625.6	603.5	564.3	510.4	435.6	329.6	185.0	53.9	0.0
52.5°	465.1	481.0	484.7	468.1	431.4	378.0	300.2	189.9	64.3	0.0	0.0
55°	189.3	179.5	186.9	196.1	203.4	186.9	138.5	67.4	0.6	0.0	0.0
57.5°	0.0	0.6	3.7	8.6	14.1	17.8	19.0	1.2	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	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	0.6	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	90°	112.5°	135°	157.5°	180°
0°	352.3	352.3	352.3	352.3	352.3
2.5°	353.5	299.0	246.3	217.5	203.4
5°	340.7	228.5	141.5	98.0	81.5
7.5°	319.2	156.9	56.4	23.3	16.5
10°	288.0	90.1	15.3	6.1	5.5
12.5°	243.2	41.1	5.5	4.3	4.3
15°	193.6	14.1	3.1	2.5	1.8
17.5°	136.0	3.7	1.2	0.0	0.0
20°	82.7	0.6	0.0	0.0	0.0
22.5°	46.0	0.0	0.0	0.0	0.0
25°	22.7	0.0	0.0	0.0	0.0
27.5°	9.8	0.0	0.0	0.0	0.0
30°	3.1	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.0	0.0	0.0
67.5°	0.6	0.6	0.0	0.0	0.0
70°	0.6	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	0.0	0.0	0.0
75°	0.6	0.6	0.0	0.0	0.0
77.5°	1.2	0.6	0.6	0.0	0.0
80°	1.2	0.6	0.6	0.0	0.0
82.5°	1.2	0.6	0.6	0.0	0.0
85°	0.6	0.6	0.6	0.0	0.0
87.5°	1.2	0.6	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)