

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: P1319141

Luminaire Tested: LDSQA3D09R559835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R559835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

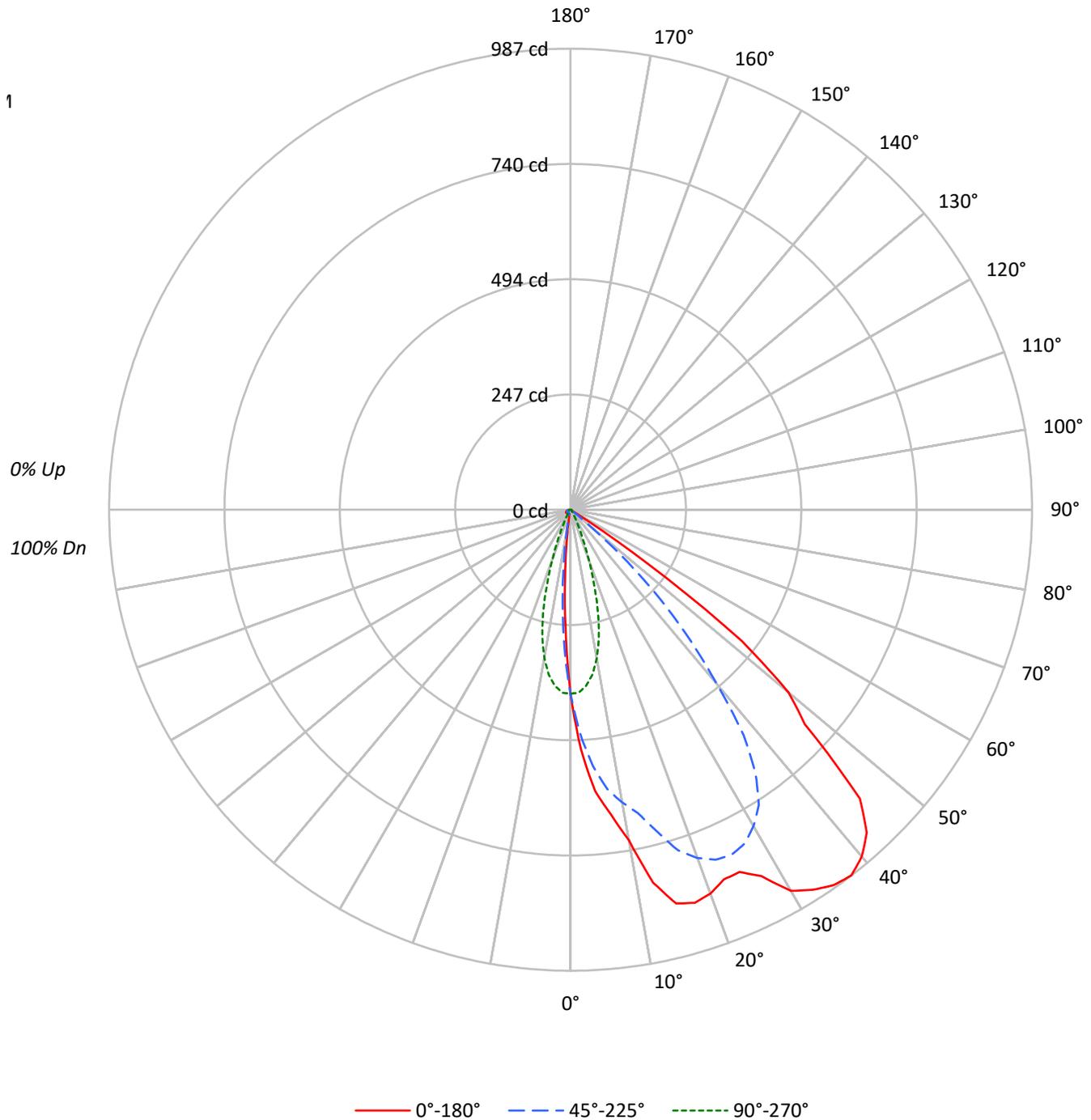
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 657.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
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 (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

TEST NUMBER: P1319141
CATALOG NUMBER: LDSQA3D09R559835DE010 3LSQCA30R 1MW

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	83	81	
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	75	73	
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	67	65	
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	61	59	
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	55	53	
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	50	48	
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	45	44	
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	41	40	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	38	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	67821	67821	67821	67821	67821
5°	104575	95205	65504	33643	22094
10°	125651	111276	56381	8482	3393
15°	155583	127091	40295	2336	1836
20°	160238	145392	20820	1576	1576
25°	162568	154872	8342	1406	1634
30°	187371	155592	3639	1472	1710
35°	206250	145069	1556	1556	1913
40°	217851	109195	899	1799	2046
45°	213090	66711	828	1948	2509
50°	163009	14227	911	2304	2894
55°	59812	510	1021	2582	3243
60°	586	586	1171	2962	3720
65°	693	693	1386	3016	3953
70°	554	856	1460	3424	4582
75°	399	732	1530	3793	5323
80°	595	1091	1686	3967	5653
85°	0	1186	2174	4545	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 213090 cd/sqm



TEST NUMBER: P1319141

CATALOG NUMBER: LDSQA3D09R559835DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	5.3
10°-20°	99.3	15.1
20°-30°	152.3	23.2
30°-40°	177.5	27.0
40°-50°	141.8	21.6
50°-60°	42.0	6.4
60°-70°	4.5	0.7
70°-80°	3.5	0.5
80°-90°	1.5	0.2
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°	286.2	43.6
0°-40°	463.7	70.6
0°-60°	647.5	98.6
0°-90°	657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	394	394	394	394	394	
5°	605	551	379	195	128	60
15°	873	713	226	13	10	241
25°	856	815	44	7	9	406
35°	981	690	7	7	9	611
45°	875	274	3	8	10	631
55°	199	2	3	9	11	211
65°	2	2	3	7	10	1
75°	1	1	2	6	8	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°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	513.6	513.6	511.9	512.5	511.3	505.1	503.9	495.9	489.1	481.7	475.4
5°	604.9	606.1	604.4	600.9	596.4	591.8	582.1	574.7	565.0	550.7	537.6
7.5°	656.9	655.7	652.9	651.7	648.9	643.7	636.9	628.9	617.5	603.2	587.8
10°	718.5	708.8	706.0	701.4	692.3	682.0	670.0	659.2	649.5	636.3	619.8
12.5°	817.8	816.1	804.7	796.1	783.6	760.7	740.2	716.2	687.7	664.9	643.2
15°	872.6	873.7	868.6	861.8	853.8	834.9	814.4	786.4	752.8	712.8	677.4
17.5°	882.3	884.0	881.2	878.3	876.0	865.2	852.6	832.7	801.8	764.7	712.2
20°	874.3	877.7	878.3	881.7	886.3	881.7	871.5	857.8	832.1	793.3	743.1
22.5°	856.6	862.9	867.5	879.4	891.4	891.4	885.2	874.3	849.2	811.0	759.6
25°	855.5	856.6	858.3	877.7	896.6	900.6	894.9	883.4	856.1	815.0	759.0
27.5°	884.0	876.6	865.2	884.6	906.8	910.3	902.3	886.9	854.3	805.8	739.6
30°	942.2	925.7	901.7	916.0	931.4	927.4	911.4	886.9	842.9	782.4	703.1
32.5°	964.5	955.4	946.8	962.2	965.1	948.5	920.0	883.4	824.7	749.3	643.2
35°	981.0	981.6	978.2	981.0	967.3	943.9	912.5	864.6	790.4	690.0	563.9
37.5°	986.7	987.9	980.5	970.2	949.6	922.8	885.2	830.4	733.3	608.4	444.0
40°	969.0	965.6	953.6	939.4	917.1	889.7	848.6	767.0	648.3	485.7	346.4
42.5°	937.7	932.0	917.7	900.6	877.2	842.4	776.7	678.0	526.8	378.9	242.5
45°	874.9	870.9	853.2	840.6	812.7	767.6	683.1	558.7	407.5	273.9	140.4
47.5°	679.7	680.3	694.0	700.2	690.5	654.6	555.3	424.6	297.3	163.2	47.4
50°	608.4	605.5	591.8	573.0	541.6	487.9	407.5	300.2	175.8	53.1	6.8
52.5°	461.7	461.7	454.8	445.1	412.0	360.1	275.6	166.1	61.6	9.1	1.7
55°	199.2	188.9	194.6	205.5	196.9	171.2	129.0	49.7	10.8	1.7	1.7
57.5°	2.9	6.8	10.3	16.6	22.3	26.8	14.3	5.1	1.7	1.7	1.7
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	1.1	1.1	1.1	1.7	1.1	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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



TEST NUMBER: P1319141

CATALOG NUMBER: LDSQA3D09R559835DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	466.3	456.6	440.6	392.1	341.8	295.6	262.5	250.0
5°	522.8	505.1	478.2	378.9	279.1	194.6	146.7	127.8
7.5°	567.3	544.4	505.6	356.1	204.9	103.9	62.2	49.1
10°	597.0	571.8	521.0	322.4	135.8	48.5	23.4	19.4
12.5°	618.6	587.3	526.8	279.1	79.9	22.3	12.6	11.4
15°	634.6	594.1	519.9	226.0	43.9	13.1	10.3	10.3
17.5°	656.9	597.5	503.4	166.6	25.1	9.7	9.7	9.7
20°	674.0	597.5	472.0	113.6	15.4	8.6	8.6	8.6
22.5°	682.6	588.4	433.7	71.9	10.8	8.0	8.6	8.6
25°	674.0	566.1	384.7	43.9	8.6	7.4	8.0	8.6
27.5°	642.6	521.6	319.0	28.0	6.8	7.4	8.0	8.6
30°	590.1	457.1	244.8	18.3	6.3	7.4	8.0	8.6
32.5°	515.9	361.3	158.7	12.0	5.7	7.4	8.0	8.6
35°	402.9	255.7	95.9	7.4	5.7	7.4	8.6	9.1
37.5°	301.9	170.6	51.9	4.6	5.7	7.4	8.6	9.1
40°	209.4	99.3	22.3	4.0	5.7	8.0	9.1	9.1
42.5°	121.6	39.4	5.7	3.4	5.7	8.0	9.1	9.7
45°	44.5	8.0	1.7	3.4	6.3	8.0	9.1	10.3
47.5°	6.3	1.7	1.7	3.4	6.3	8.0	9.7	10.3
50°	1.7	1.7	1.7	3.4	6.3	8.6	10.3	10.8
52.5°	1.7	1.7	1.7	3.4	6.3	8.6	10.3	10.8
55°	1.7	1.7	1.7	3.4	6.3	8.6	10.3	10.8
57.5°	1.7	1.7	1.7	3.4	6.3	8.6	10.3	10.8
60°	1.7	1.7	1.7	3.4	5.7	8.6	10.3	10.8
62.5°	1.7	1.7	1.7	3.4	5.7	8.0	9.7	10.3
65°	1.7	1.7	1.7	3.4	5.1	7.4	9.7	9.7
67.5°	1.7	1.7	1.7	2.9	5.1	7.4	9.1	9.7
70°	1.7	1.7	1.7	2.9	4.6	6.8	8.6	9.1
72.5°	1.7	1.7	1.7	2.3	4.0	6.3	8.0	8.6
75°	1.1	1.7	1.7	2.3	4.0	5.7	7.4	8.0
77.5°	1.1	1.7	1.7	1.7	3.4	4.6	6.3	6.8
80°	1.1	1.1	1.7	1.7	2.9	4.0	5.1	5.7
82.5°	1.1	1.1	1.1	1.7	2.3	2.9	4.0	4.0
85°	1.1	1.1	1.1	1.1	1.7	2.3	2.9	2.9
87.5°	0.6	0.6	1.1	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)