

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: P1309190

Luminaire Tested: LDSQA3D13R159030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R159030DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

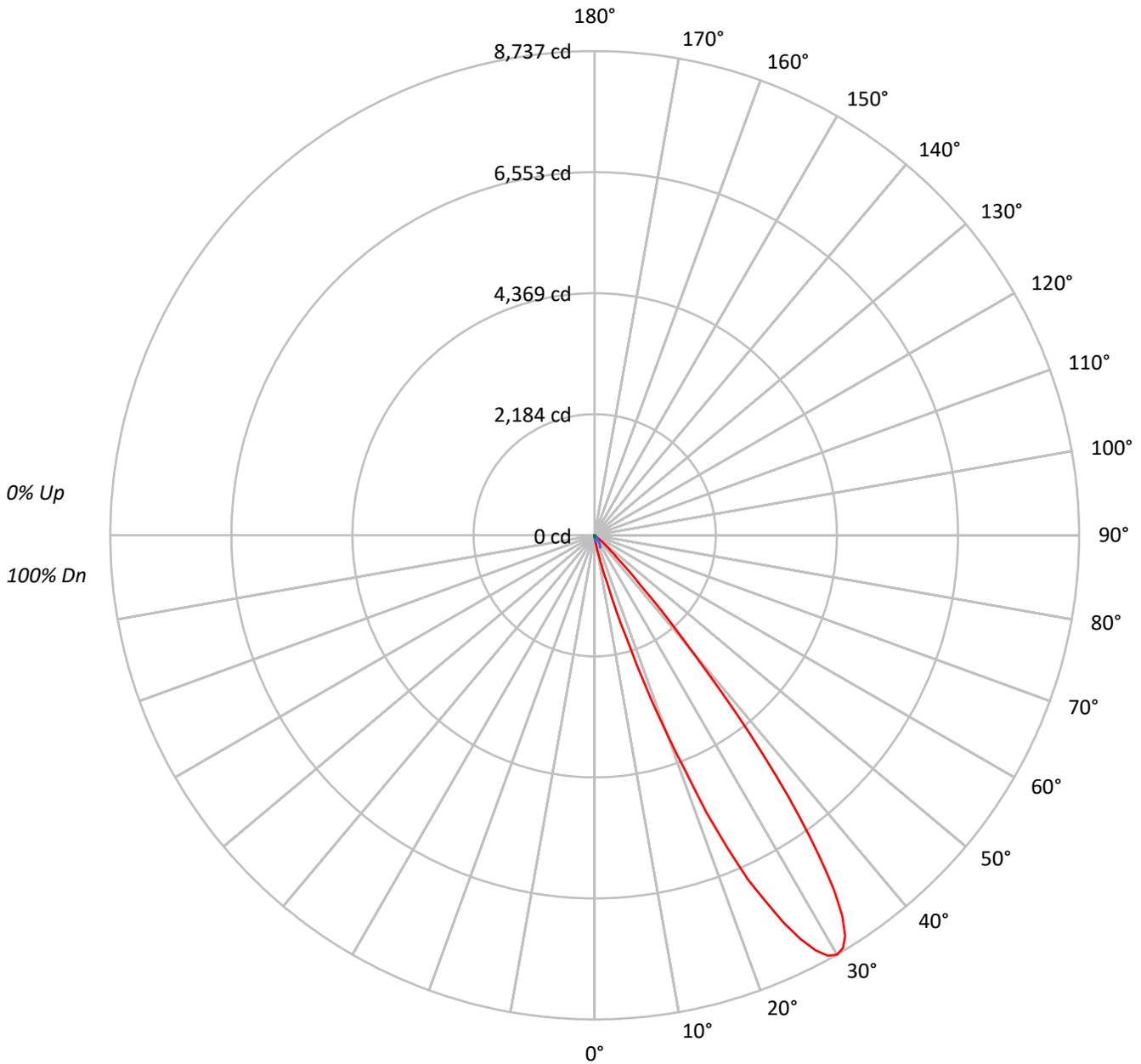
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
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

TEST NUMBER: P1309190
CATALOG NUMBER: LDSQA3D13R159030DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1309190

CATALOG NUMBER: LDSQA3D13R159030DE010 3LSQCA30R 1MB

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5683	5683	5683	5683	5683
5°	16458	12430	4875	2023	1348
10°	42828	18520	3235	0	0
15°	171166	30311	1729	0	0
20°	699306	44701	531	0	0
25°	1382368	44314	0	0	0
30°	1737489	34980	0	0	0
35°	1482480	21445	0	0	0
40°	610343	6767	0	0	0
45°	132058	2850	0	0	0
50°	16933	0	0	0	0
55°	1471	0	300	0	0
60°	0	0	654	0	0
65°	0	0	774	0	0
70°	0	504	1460	0	0
75°	0	665	1930	0	0
80°	0	992	2876	0	0
85°	0	1976	5730	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 138196 cd/sqm



TEST NUMBER: P1309190

CATALOG NUMBER: LDSQA3D13R159030DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.5
10°-20°	64.8	7.0
20°-30°	377.4	40.8
30°-40°	404.7	43.8
40°-50°	68.3	7.4
50°-60°	2.1	0.2
60°-70°	0.6	0.1
70°-80°	0.9	0.1
80°-90°	0.8	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°	446.6	48.3
0°-40°	851.3	92.1
0°-60°	921.7	99.7
0°-90°	924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	95	72	28	12	8	13
15°	960	170	10	0	0	444
25°	7275	233	0	0	0	3291
35°	7051	102	0	0	0	4052
45°	542	12	0	0	0	640
55°	5	0	1	0	0	12
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1309190
 CATALOG NUMBER: LDSQA3D13R159030DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
2.5°	60.2	61.2	62.2	62.2	62.2	62.2	61.2	61.2	61.2	61.2	60.2
5°	95.2	95.2	95.2	95.2	95.2	95.2	94.2	94.2	94.2	94.2	94.2
7.5°	136.0	134.1	135.1	132.1	134.1	133.1	132.1	134.1	134.1	129.2	129.2
10°	244.9	243.9	234.2	236.1	238.1	237.1	237.1	231.2	230.3	226.4	222.5
12.5°	472.2	482.9	490.7	490.7	472.2	479.0	466.4	469.3	471.2	465.4	445.0
15°	960.0	977.5	959.0	976.5	969.7	944.4	916.3	878.4	892.9	866.7	858.0
17.5°	2102.6	2142.5	2125.9	2045.3	2071.5	2009.3	1970.5	1955.9	1915.1	1793.6	1743.1
20°	3815.6	3864.2	3818.5	3724.3	3754.4	3636.8	3606.7	3578.5	3397.8	3331.7	3119.9
21°	4536.6	4576.4	4593.9	4495.8	4435.5	4342.2	4264.5	4239.2	4129.5	4002.2	3784.5
22°	5407.2	5360.5	5255.6	5269.2	5179.8	5103.0	4995.2	4893.2	4770.7	4592.9	4413.2
23°	6128.1	6073.7	6024.1	5963.9	5867.7	5813.3	5658.8	5547.1	5387.7	5197.3	5024.3
24°	6799.5	6715.9	6684.9	6578.0	6550.8	6428.3	6303.0	6157.3	5964.9	5761.8	5570.4
25°	7274.6	7287.3	7260.1	7247.4	7108.5	6983.1	6858.8	6634.3	6470.1	6290.4	5996.0
26°	7783.8	7789.6	7776.0	7682.7	7557.4	7435.0	7274.6	7079.3	6841.3	6642.1	6375.9
27°	8173.4	8150.1	8130.7	8019.9	7916.9	7762.4	7616.7	7385.4	7153.2	6916.1	6607.1
28°	8484.3	8440.6	8416.3	8321.1	8200.6	8011.1	7832.4	7616.7	7384.4	7129.9	6795.6
29°	8671.9	8625.2	8598.0	8493.1	8354.1	8188.0	8007.3	7770.2	7520.5	7236.7	6900.6
30°	8737.0	8709.7	8667.0	8558.2	8414.4	8241.4	8055.8	7798.4	7537.0	7246.5	6890.8
31°	8694.2	8659.2	8618.4	8500.8	8345.4	8180.2	7964.5	7694.4	7419.4	7142.5	6765.5
32°	8524.2	8502.8	8453.2	8295.8	8169.5	7955.8	7743.0	7490.3	7190.1	6892.8	6551.7
33°	8205.5	8170.5	8127.7	7983.9	7822.6	7617.6	7405.8	7147.4	6849.1	6535.2	6160.2
34°	7719.6	7675.0	7621.5	7525.3	7319.3	7141.5	6896.7	6594.5	6347.7	6046.5	5707.4
35°	7051.2	6986.1	6921.9	6849.1	6617.8	6453.6	6288.4	6025.1	5787.1	5503.3	5119.6
36°	6301.1	6275.8	6223.3	6030.9	5956.1	5732.7	5599.5	5297.4	5105.0	4827.1	4510.3
37°	5452.8	5304.2	5379.9	5272.1	5046.7	4976.7	4818.3	4558.9	4351.0	4057.6	3828.2
38°	4543.4	4446.2	4499.6	4390.8	4273.3	4112.0	3991.5	3802.0	3568.8	3338.5	3120.9
39°	3600.9	3522.2	3580.5	3506.6	3327.9	3260.8	3153.9	3009.2	2821.6	2641.9	2435.9
40°	2714.8	2613.7	2691.4	2586.5	2504.9	2395.1	2340.7	2207.6	2091.0	1983.1	1851.9
42.5°	1239.8	1229.1	1211.6	1173.7	1165.0	1166.0	1098.9	1055.2	995.9	926.9	885.2
45°	542.2	555.8	567.4	546.1	545.1	533.4	529.5	500.4	488.7	466.4	439.2
47.5°	267.2	272.1	269.1	275.0	270.1	262.3	260.4	256.5	244.9	243.9	231.2
50°	63.2	62.2	62.2	63.2	62.2	62.2	61.2	59.3	58.3	59.3	56.4
52.5°	20.4	21.4	20.4	19.4	20.4	21.4	20.4	20.4	20.4	20.4	20.4
55°	4.9	4.9	4.9	4.9	4.9	4.9	3.9	3.9	4.9	4.9	4.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1309190

CATALOG NUMBER: LDSQA3D13R159030DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1309190
 CATALOG NUMBER: LDSQA3D13R159030DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
2.5°	59.3	50.5	41.8	33.0	24.3	19.4	18.5	17.5
5°	89.4	71.9	47.6	28.2	16.5	11.7	8.7	7.8
7.5°	120.5	89.4	52.5	23.3	11.7	4.9	1.9	1.0
10°	173.0	105.9	54.4	18.5	5.8	0.0	0.0	0.0
12.5°	339.1	121.5	53.4	14.6	1.0	0.0	0.0	0.0
15°	563.5	170.0	49.6	9.7	0.0	0.0	0.0	0.0
17.5°	923.1	219.6	42.8	6.8	0.0	0.0	0.0	0.0
20°	1431.2	243.9	33.0	2.9	0.0	0.0	0.0	0.0
21°	1678.0	245.8	29.1	1.9	0.0	0.0	0.0	0.0
22°	1891.8	245.8	25.3	1.0	0.0	0.0	0.0	0.0
23°	2090.0	242.9	22.3	0.0	0.0	0.0	0.0	0.0
24°	2253.2	239.0	20.4	0.0	0.0	0.0	0.0	0.0
25°	2375.7	233.2	18.5	0.0	0.0	0.0	0.0	0.0
26°	2432.0	225.4	15.5	0.0	0.0	0.0	0.0	0.0
27°	2460.2	214.7	13.6	0.0	0.0	0.0	0.0	0.0
28°	2440.7	203.1	11.7	0.0	0.0	0.0	0.0	0.0
29°	2392.2	190.4	8.7	0.0	0.0	0.0	0.0	0.0
30°	2329.0	175.9	6.8	0.0	0.0	0.0	0.0	0.0
31°	2236.7	161.3	4.9	0.0	0.0	0.0	0.0	0.0
32°	2110.4	146.7	3.9	0.0	0.0	0.0	0.0	0.0
33°	1941.3	131.2	1.9	0.0	0.0	0.0	0.0	0.0
34°	1732.4	115.6	1.0	0.0	0.0	0.0	0.0	0.0
35°	1498.3	102.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	1297.1	87.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	1095.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	917.2	55.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	758.8	44.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	628.6	30.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	347.8	20.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	210.8	11.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	122.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	46.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.9	0.0	0.0	1.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.0	1.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.0	1.9	1.0	0.0	0.0	0.0
65°	0.0	0.0	1.9	1.9	1.0	0.0	0.0	0.0
67.5°	0.0	0.0	1.9	2.9	1.0	0.0	0.0	0.0
70°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
72.5°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
75°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
77.5°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0



TEST NUMBER: P1309190
CATALOG NUMBER: LDSQA3D13R159030DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
85°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
87.5°	0.0	1.0	1.9	2.9	1.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)