

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: P1310401

Luminaire Tested: LDSQA3D13R459035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459035DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

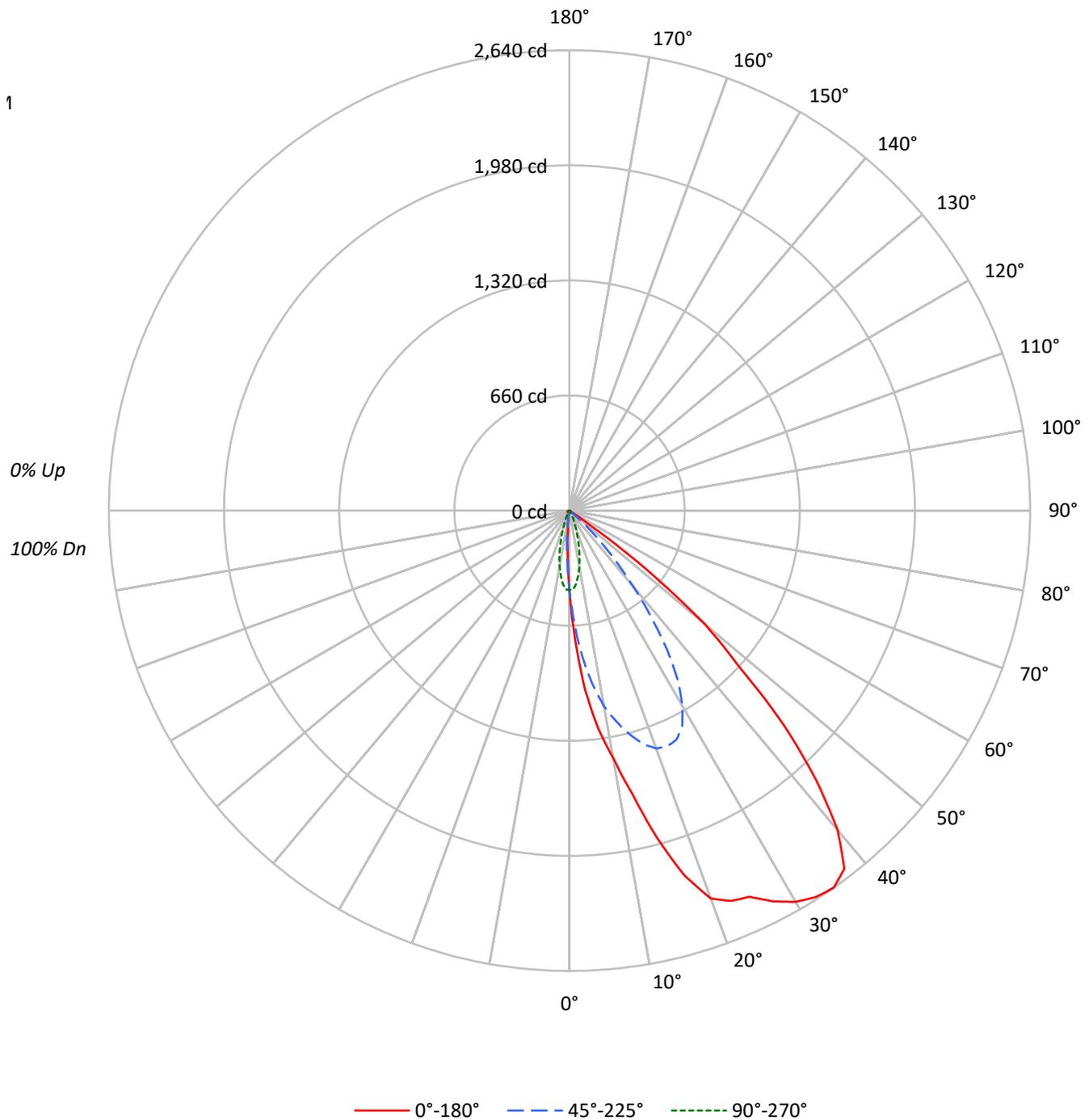
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
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: P1310401
CATALOG NUMBER: LDSQA3D13R459035DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1310401

CATALOG NUMBER: LDSQA3D13R459035DE010 3LSQCA30R 1MW

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	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	78379	78379	78379	78379	78379
5°	178620	144908	73319	29390	20054
10°	251704	199065	56678	6471	2973
15°	346861	236833	36194	2140	1783
20°	433721	265988	18877	1466	1466
25°	464140	275406	8741	1140	1330
30°	515181	257193	3977	1193	1392
35°	554963	205031	1261	1261	1682
40°	536984	127046	674	1574	2023
45°	421699	59940	731	1948	2436
50°	270932	6966	1072	2411	3215
55°	41136	601	1201	3003	3903
60°	689	689	1378	3444	4133
65°	815	815	1630	3668	4890
70°	1007	1007	2014	4028	5539
75°	665	1331	2662	4658	5989
80°	992	1984	2975	4959	6943
85°	0	1976	3952	5928	5928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 421699 cd/sqm



TEST NUMBER: P1310401

CATALOG NUMBER: LDSQA3D13R459035DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	4.2
10°-20°	180.1	15.1
20°-30°	316.4	26.5
30°-40°	359.2	30.0
40°-50°	232.6	19.4
50°-60°	45.7	3.8
60°-70°	5.5	0.5
70°-80°	4.6	0.4
80°-90°	2.1	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°	546.2	45.7
0°-40°	905.5	75.7
0°-60°	1183.7	99.0
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	455	455	455	455	455	
5°	1033	838	424	170	116	110
15°	1945	1328	203	12	10	560
25°	2442	1449	46	6	7	1145
35°	2640	975	6	6	8	1623
45°	1731	246	3	8	10	1305
55°	137	2	4	10	13	262
65°	2	2	4	9	12	2
75°	1	2	4	7	9	1
85°	0	1	2	3	3	0
90°	0	0	0	0	0	



TEST NUMBER: P1310401

CATALOG NUMBER: LDSQA3D13R459035DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1
2.5°	739.2	737.2	740.2	720.2	719.2	704.2	700.2	683.2	660.1	649.1	623.1
5°	1033.2	1023.2	1023.2	999.2	991.2	974.2	945.2	909.2	879.2	838.2	794.2
7.5°	1260.3	1258.3	1258.3	1237.3	1217.3	1193.3	1154.3	1113.2	1065.2	1002.2	938.2
10°	1439.3	1442.3	1433.3	1414.3	1385.3	1359.3	1313.3	1263.3	1204.3	1138.3	1053.2
12.5°	1665.4	1643.4	1636.4	1593.4	1556.3	1506.3	1451.3	1394.3	1321.3	1238.3	1142.3
15°	1945.4	1917.4	1889.4	1832.4	1770.4	1693.4	1607.4	1523.3	1429.3	1328.3	1208.3
17.5°	2195.5	2195.5	2158.5	2068.5	1988.4	1874.4	1758.4	1646.4	1535.3	1402.3	1252.3
20°	2366.5	2357.5	2329.5	2263.5	2172.5	2043.5	1892.4	1735.4	1601.4	1451.3	1277.3
22.5°	2422.5	2420.5	2421.5	2382.5	2309.5	2175.5	1990.4	1805.4	1637.4	1463.3	1265.3
25°	2442.5	2446.5	2456.6	2441.5	2386.5	2252.5	2050.5	1838.4	1648.4	1449.3	1219.3
27.5°	2525.6	2517.6	2528.6	2518.6	2456.6	2296.5	2062.5	1830.4	1624.4	1398.3	1137.3
30°	2590.6	2588.6	2607.6	2598.6	2517.6	2324.5	2051.5	1800.4	1565.4	1293.3	1008.2
32.5°	2627.6	2628.6	2633.6	2596.6	2476.6	2263.5	1997.4	1739.4	1454.3	1156.3	840.2
35°	2639.6	2633.6	2605.6	2514.6	2350.5	2122.5	1864.4	1594.4	1303.3	975.2	664.1
37.5°	2587.6	2556.6	2484.6	2348.5	2158.5	1945.4	1694.4	1411.3	1096.2	770.2	495.1
40°	2388.5	2347.5	2256.5	2117.5	1940.4	1734.4	1477.3	1181.3	850.2	565.1	348.1
42.5°	2090.5	2069.5	1974.4	1853.4	1703.4	1495.3	1230.3	930.2	629.1	390.1	222.0
45°	1731.4	1704.4	1644.4	1537.3	1419.3	1201.3	954.2	666.1	429.1	246.1	110.0
47.5°	1298.3	1300.3	1259.3	1178.3	1062.2	880.2	653.1	447.1	269.1	127.0	25.0
50°	1011.2	997.2	939.2	856.2	721.2	586.1	422.1	282.1	142.0	26.0	2.0
52.5°	560.1	569.1	538.1	511.1	441.1	350.1	249.1	143.0	30.0	3.0	2.0
55°	137.0	145.0	139.0	142.0	147.0	131.0	101.0	28.0	3.0	2.0	2.0
57.5°	3.0	3.0	3.0	3.0	5.0	7.0	7.0	2.0	2.0	2.0	2.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
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: P1310401

CATALOG NUMBER: LDSQA3D13R459035DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1
2.5°	610.1	591.1	556.1	452.1	363.1	293.1	251.1	247.1
5°	755.2	704.2	630.1	424.1	268.1	170.0	123.0	116.0
7.5°	870.2	798.2	684.2	378.1	183.0	87.0	48.0	40.0
10°	965.2	863.2	712.2	324.1	115.0	37.0	20.0	17.0
12.5°	1030.2	907.2	717.2	264.1	66.0	18.0	13.0	12.0
15°	1072.2	921.2	693.2	203.0	37.0	12.0	11.0	10.0
17.5°	1089.2	909.2	647.1	147.0	20.0	9.0	9.0	9.0
20°	1081.2	870.2	579.1	103.0	13.0	8.0	8.0	8.0
22.5°	1043.2	803.2	494.1	69.0	9.0	7.0	7.0	7.0
25°	968.2	712.2	404.1	46.0	6.0	6.0	7.0	7.0
27.5°	856.2	600.1	309.1	31.0	5.0	6.0	7.0	7.0
30°	715.2	475.1	222.0	20.0	5.0	6.0	6.0	7.0
32.5°	568.1	346.1	146.0	12.0	4.0	6.0	7.0	8.0
35°	412.1	236.1	93.0	6.0	5.0	6.0	7.0	8.0
37.5°	289.1	154.0	54.0	4.0	5.0	6.0	8.0	8.0
40°	188.0	86.0	20.0	3.0	5.0	7.0	8.0	9.0
42.5°	98.0	30.0	4.0	3.0	5.0	7.0	9.0	10.0
45°	25.0	4.0	1.0	3.0	6.0	8.0	10.0	10.0
47.5°	3.0	1.0	1.0	4.0	6.0	9.0	10.0	11.0
50°	1.0	2.0	2.0	4.0	6.0	9.0	11.0	12.0
52.5°	2.0	2.0	2.0	4.0	7.0	9.0	12.0	13.0
55°	2.0	2.0	2.0	4.0	7.0	10.0	12.0	13.0
57.5°	2.0	2.0	2.0	4.0	7.0	10.0	12.0	12.0
60°	2.0	2.0	2.0	4.0	7.0	10.0	12.0	12.0
62.5°	2.0	2.0	3.0	4.0	7.0	9.0	12.0	12.0
65°	2.0	3.0	3.0	4.0	7.0	9.0	11.0	12.0
67.5°	2.0	2.0	3.0	4.0	7.0	9.0	11.0	12.0
70°	2.0	2.0	3.0	4.0	6.0	8.0	10.0	11.0
72.5°	2.0	2.0	3.0	4.0	6.0	8.0	9.0	10.0
75°	2.0	2.0	3.0	4.0	5.0	7.0	9.0	9.0
77.5°	2.0	2.0	3.0	3.0	5.0	6.0	8.0	8.0
80°	2.0	2.0	3.0	3.0	4.0	5.0	6.0	7.0
82.5°	2.0	2.0	2.0	3.0	3.0	4.0	5.0	5.0
85°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0
87.5°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)