

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: P1314839

Luminaire Tested: LDSQA3D17R509730DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509730DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

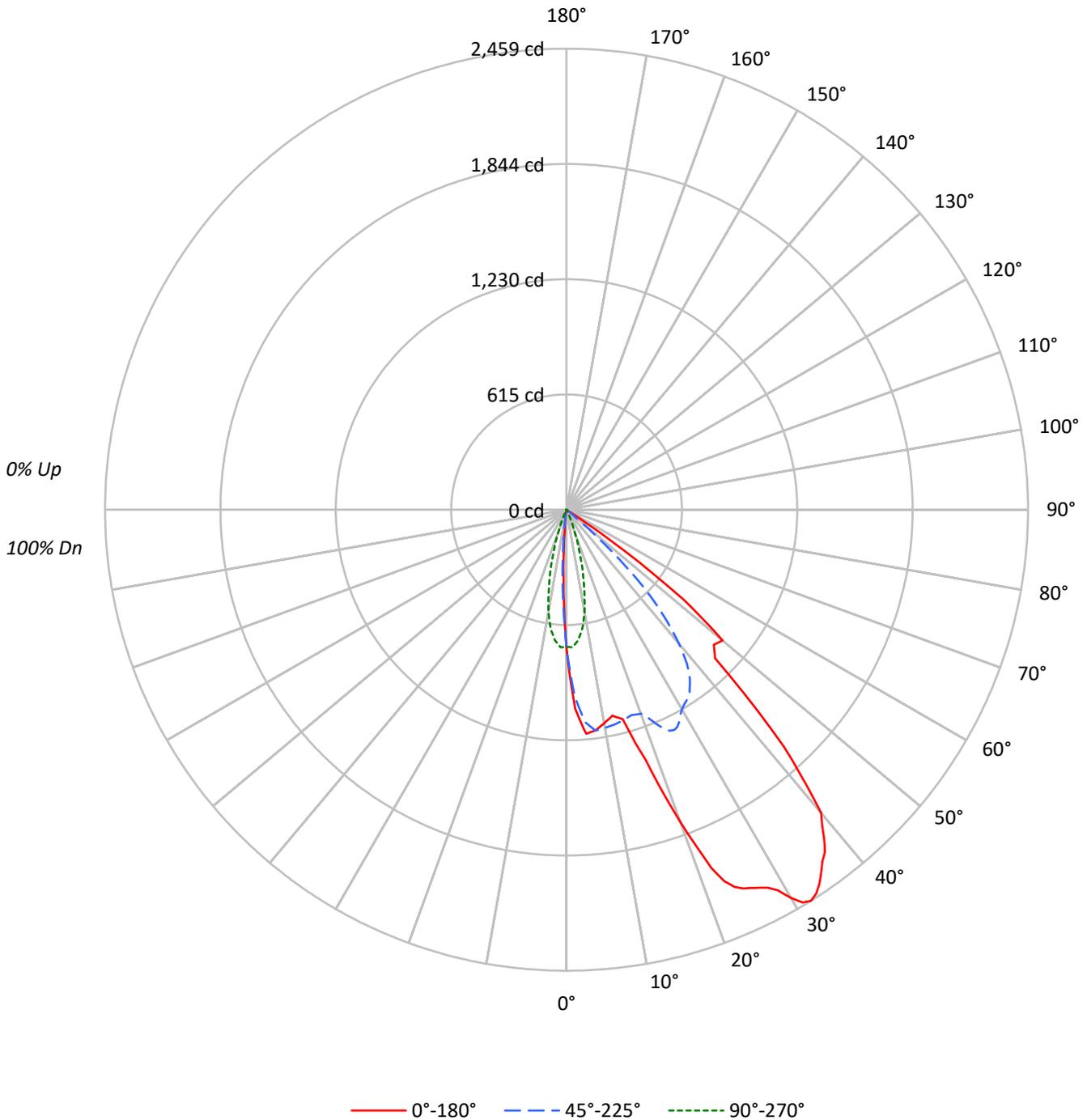
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1177.1 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1314839
CATALOG NUMBER: LDSQA3D17R509730DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot





TEST NUMBER: P1314839

CATALOG NUMBER: LDSQA3D17R509730DE010 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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82	82	82	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74	74	74	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	54	54	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	48	48	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	125860	125860	125860	125860	125860
5°	207370	196790	120947	35925	17962
10°	202091	206533	96901	1819	2431
15°	206041	207271	58054	1854	624
20°	324783	212215	23917	0	0
25°	423398	247244	5701	0	0
30°	475229	244505	239	0	0
35°	497335	240773	0	0	0
40°	474462	209196	0	0	0
45°	272470	138050	0	0	0
50°	290759	15781	0	0	0
55°	82842	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	604	0	0
75°	0	799	799	0	0
80°	0	1190	2281	1190	0
85°	0	2371	4545	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 300869 cd/sqm



TEST NUMBER: P1314839

CATALOG NUMBER: LDSQA3D17R509730DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	5.2
10°-20°	154.6	13.1
20°-30°	297.0	25.2
30°-40°	345.7	29.4
40°-50°	247.4	21.0
50°-60°	68.9	5.9
60°-70°	0.5	0.0
70°-80°	0.7	0.1
80°-90°	0.9	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°	513.0	43.6
0°-40°	858.7	73.0
0°-60°	1175.0	99.8
0°-90°	1177.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	1200	1138	700	208	104	110
15°	1156	1162	326	10	4	373
25°	2228	1301	30	0	0	1013
35°	2366	1145	0	0	0	1464
45°	1119	567	0	0	0	1052
55°	276	0	0	0	0	347
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1314839
 CATALOG NUMBER: LDSQA3D17R509730DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8
2.5°	1062.1	1067.9	1069.0	1055.2	1057.5	1037.9	1039.0	1025.2	991.7	875.1	734.2
5°	1199.5	1196.0	1199.5	1194.9	1199.5	1187.9	1181.0	1175.2	1138.3	973.2	699.6
7.5°	1186.8	1182.2	1189.1	1191.4	1199.5	1196.0	1197.2	1200.6	1187.9	1026.3	640.7
10°	1155.6	1154.5	1157.9	1157.9	1167.2	1168.3	1172.9	1179.9	1181.0	1044.8	554.1
12.5°	1125.6	1122.1	1122.1	1121.0	1125.6	1124.5	1136.0	1152.2	1174.1	1033.2	435.2
15°	1155.6	1152.2	1147.5	1134.8	1125.6	1115.2	1116.4	1126.8	1162.5	1003.2	325.6
17.5°	1398.1	1379.6	1356.5	1316.1	1273.4	1199.5	1155.6	1127.9	1148.7	957.1	217.0
20°	1772.1	1764.0	1727.1	1661.3	1592.0	1483.5	1348.4	1239.9	1157.9	899.3	130.5
21°	1914.1	1909.5	1870.2	1809.1	1730.5	1598.9	1460.4	1329.9	1176.4	875.1	102.7
22°	2059.6	2042.3	2011.1	1943.0	1861.0	1729.4	1574.7	1430.4	1213.3	843.9	78.5
23°	2153.1	2142.7	2109.2	2055.0	1976.4	1848.3	1690.1	1533.1	1249.1	809.3	58.9
24°	2201.6	2198.1	2171.6	2133.5	2066.5	1936.0	1786.0	1624.3	1279.2	768.9	42.7
25°	2228.1	2216.6	2200.4	2172.7	2121.9	2008.8	1874.9	1704.0	1301.1	728.5	30.0
26°	2244.3	2237.4	2212.0	2187.7	2139.2	2046.9	1932.6	1752.5	1306.9	678.8	20.8
27°	2262.8	2246.6	2222.4	2193.5	2139.2	2058.4	1954.5	1773.3	1299.9	628.0	13.9
28°	2282.4	2270.8	2237.4	2200.4	2135.8	2058.4	1946.4	1745.6	1279.2	579.5	8.1
29°	2320.5	2305.5	2263.9	2209.7	2136.9	2056.1	1915.3	1687.8	1251.4	525.3	4.6
30°	2389.7	2358.6	2307.8	2231.6	2145.0	2051.5	1863.3	1601.2	1229.5	464.1	1.2
31°	2444.0	2426.7	2367.8	2272.0	2168.1	2038.8	1802.1	1515.8	1214.5	411.0	0.0
32°	2459.0	2446.3	2403.6	2313.6	2207.3	2028.4	1732.9	1432.7	1203.0	352.1	0.0
33°	2441.7	2433.6	2388.6	2306.6	2217.7	2014.5	1653.2	1350.7	1190.3	299.0	0.0
34°	2409.4	2399.0	2359.7	2276.6	2191.2	1954.5	1577.0	1288.4	1171.8	249.4	0.0
35°	2365.5	2357.4	2317.0	2235.0	2142.7	1861.0	1500.8	1246.8	1145.2	199.7	0.0
36°	2318.2	2315.9	2263.9	2183.1	2080.4	1771.0	1408.5	1215.7	1118.7	158.2	0.0
37°	2287.0	2275.5	2218.9	2139.2	2006.5	1665.9	1334.6	1205.3	1081.7	122.4	0.0
38°	2230.4	2232.7	2168.1	2095.4	1931.4	1574.7	1274.5	1197.2	1040.2	88.9	0.0
39°	2163.5	2164.6	2097.7	2035.3	1842.5	1478.9	1224.9	1189.1	988.2	56.6	0.0
40°	2110.4	2109.2	2033.0	1966.1	1746.7	1388.8	1198.3	1177.6	930.5	32.3	0.0
42.5°	1715.5	1722.5	1731.7	1759.4	1521.6	1230.7	1172.9	1112.9	766.6	0.0	0.0
45°	1118.7	1145.2	1152.2	1235.3	1234.1	1166.0	1112.9	997.5	566.8	0.0	0.0
47.5°	1064.4	1072.5	1087.5	1119.8	1137.2	1103.7	995.2	833.5	309.4	0.0	0.0
50°	1085.2	1084.0	1087.5	1087.5	1056.3	969.8	816.2	615.3	58.9	0.0	0.0
52.5°	779.3	808.1	839.3	853.2	812.7	721.5	595.7	361.3	0.0	0.0	0.0
55°	275.9	266.7	259.8	284.0	278.2	312.9	258.6	84.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	4.6	10.4	13.9	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	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.3



TEST NUMBER: P1314839

CATALOG NUMBER: LDSQA3D17R509730DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.3
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: P1314839

CATALOG NUMBER: LDSQA3D17R509730DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	730.8	730.8	730.8	730.8
2.5°	585.3	449.1	363.7	369.4
5°	411.0	207.8	128.1	103.9
7.5°	245.9	63.5	12.7	10.4
10°	115.4	10.4	11.5	13.9
12.5°	34.6	9.2	12.7	11.5
15°	9.2	10.4	5.8	3.5
17.5°	3.5	4.6	0.0	0.0
20°	2.3	0.0	0.0	0.0
21°	2.3	0.0	0.0	0.0
22°	1.2	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	1.2	0.0	0.0



TEST NUMBER: P1314839
CATALOG NUMBER: LDSQA3D17R509730DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.2	1.2	0.0	0.0
85°	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)