

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: P1312771

Luminaire Tested: LDSQA3D17R559050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312771
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: LDSQA3D17R559050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

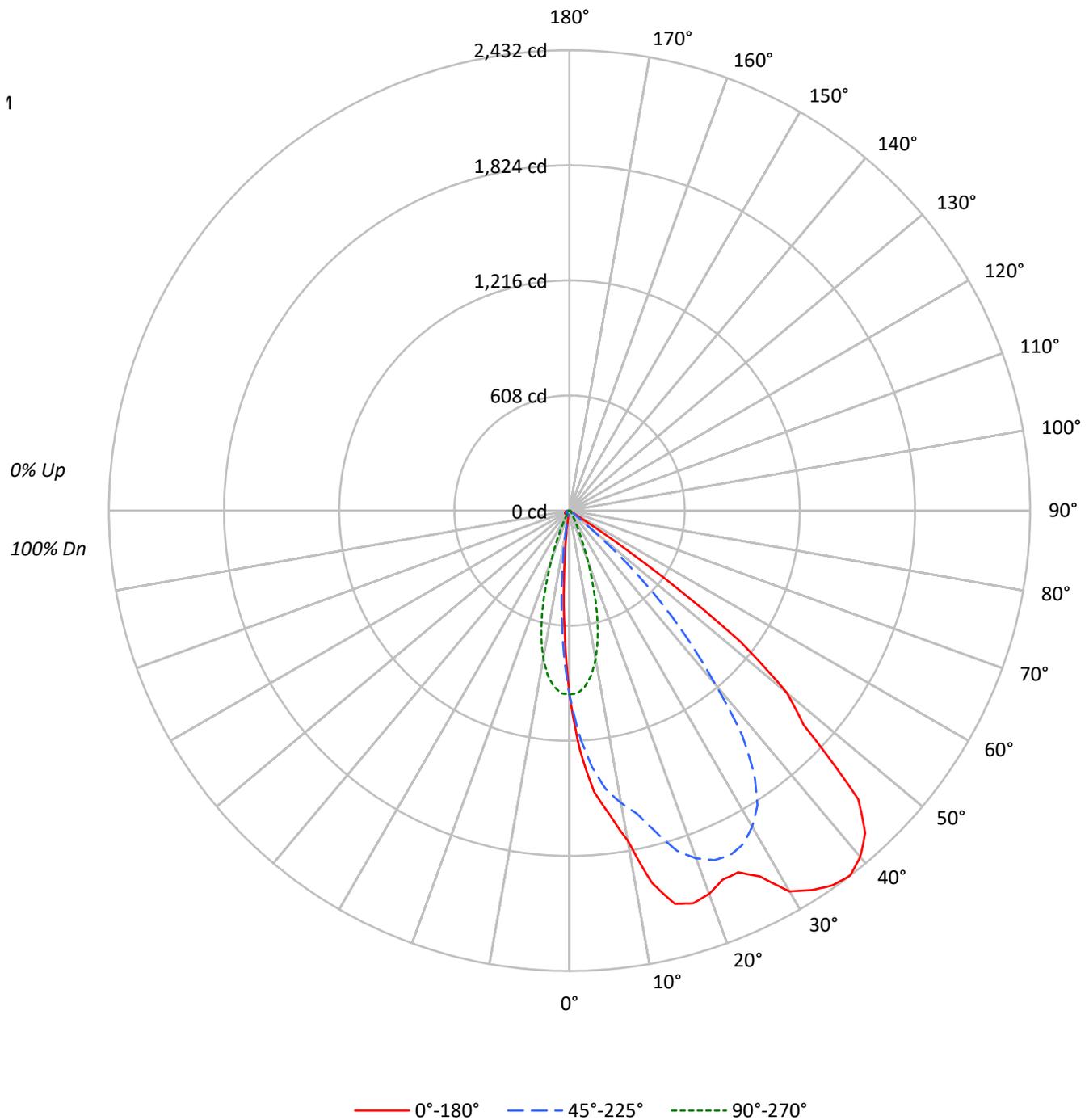
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1619.0 lumens
Efficiency: N/A
Efficacy: 76.4 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): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	167125	167125	167125	167125	167125
5°	257713	234616	161436	82913	54457
10°	309642	274228	138959	20898	8359
15°	383394	313180	99294	5759	4511
20°	394867	358267	51299	3867	3867
25°	400595	381631	20580	3477	4010
30°	461746	383433	8949	3639	4196
35°	508267	357480	3847	3847	4731
40°	536872	269065	2203	4429	5058
45°	525090	164403	2046	4798	6162
50°	401682	35045	2251	5653	7154
55°	147368	1261	2522	6336	8017
60°	1447	1447	2893	7268	9197
65°	1712	1712	3423	7457	9740
70°	1410	2115	3525	8510	11330
75°	932	1863	3726	9382	13109
80°	1389	2777	4166	9720	13984
85°	0	2766	5533	11066	13832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 525090 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	5.3
10°-20°	244.6	15.1
20°-30°	375.3	23.2
30°-40°	437.3	27.0
40°-50°	349.4	21.6
50°-60°	103.4	6.4
60°-70°	11.1	0.7
70°-80°	8.7	0.5
80°-90°	3.7	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°	705.4	43.6
0°-40°	1142.7	70.6
0°-60°	1595.5	98.6
0°-90°	1619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	970	970	970	970	970	
5°	1491	1357	934	480	315	148
15°	2150	1756	557	32	25	594
25°	2108	2008	108	18	21	1001
35°	2418	1700	18	18	22	1506
45°	2156	675	8	20	25	1554
55°	491	4	8	21	27	520
65°	4	4	8	18	24	4
75°	1	3	6	14	20	2
85°	0	1	3	6	7	1
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°	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4
2.5°	1265.7	1265.7	1261.5	1262.9	1260.1	1244.6	1241.8	1222.1	1205.2	1186.9	1171.5
5°	1490.7	1493.5	1489.3	1480.9	1469.6	1458.4	1434.5	1416.2	1392.3	1357.1	1324.8
7.5°	1618.7	1615.9	1608.9	1606.0	1599.0	1586.3	1569.5	1549.8	1521.7	1486.5	1448.5
10°	1770.6	1746.7	1739.6	1728.4	1705.9	1680.6	1651.0	1624.3	1600.4	1568.1	1527.3
12.5°	2015.3	2011.1	1982.9	1961.8	1930.9	1874.6	1824.0	1765.0	1694.6	1638.4	1584.9
15°	2150.3	2153.1	2140.4	2123.6	2103.9	2057.5	2006.8	1937.9	1855.0	1756.5	1669.3
17.5°	2174.2	2178.4	2171.4	2164.4	2158.7	2132.0	2101.1	2051.8	1975.9	1884.5	1755.1
20°	2154.5	2162.9	2164.4	2172.8	2184.0	2172.8	2147.5	2113.7	2050.4	1954.8	1831.1
22.5°	2110.9	2126.4	2137.6	2167.2	2196.7	2196.7	2181.2	2154.5	2092.6	1998.4	1871.8
25°	2108.1	2110.9	2115.1	2162.9	2209.4	2219.2	2205.1	2177.0	2109.5	2008.3	1870.4
27.5°	2178.4	2160.1	2132.0	2179.8	2234.7	2243.1	2223.4	2185.4	2105.3	1985.7	1822.6
30°	2321.9	2281.1	2222.0	2257.2	2295.1	2285.3	2245.9	2185.4	2077.2	1928.1	1732.6
32.5°	2376.7	2354.2	2333.1	2371.1	2378.1	2337.3	2267.0	2177.0	2032.2	1846.5	1584.9
35°	2417.5	2418.9	2410.5	2417.5	2383.7	2326.1	2248.7	2130.6	1947.8	1700.3	1389.5
37.5°	2431.6	2434.4	2416.1	2390.8	2340.1	2274.0	2181.2	2046.2	1807.1	1499.2	1094.1
40°	2388.0	2379.5	2350.0	2314.8	2260.0	2192.5	2091.2	1890.1	1597.6	1196.8	853.6
42.5°	2310.6	2296.5	2261.4	2219.2	2161.5	2075.8	1914.0	1670.7	1298.0	933.8	597.7
45°	2155.9	2146.1	2102.5	2071.5	2002.6	1891.5	1683.4	1376.8	1004.1	675.0	346.0
47.5°	1674.9	1676.4	1710.1	1725.6	1701.7	1613.1	1368.4	1046.3	732.7	402.2	116.7
50°	1499.2	1492.1	1458.4	1412.0	1334.6	1202.4	1004.1	739.7	433.2	130.8	16.9
52.5°	1137.7	1137.7	1120.9	1096.9	1015.4	887.4	679.3	409.2	151.9	22.5	4.2
55°	490.8	465.5	479.6	506.3	485.2	421.9	317.8	122.4	26.7	4.2	4.2
57.5°	7.0	16.9	25.3	40.8	54.8	66.1	35.2	12.7	4.2	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	2.8	2.8	2.8	4.2	2.8	4.2	4.2	4.2	4.2	4.2	4.2
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	970.4	970.4	970.4	970.4	970.4	970.4	970.4	970.4
2.5°	1149.0	1125.1	1085.7	966.2	842.4	728.5	646.9	616.0
5°	1288.2	1244.6	1178.5	933.8	687.7	479.6	361.4	315.0
7.5°	1397.9	1341.6	1246.0	877.6	504.9	256.0	153.3	120.9
10°	1471.0	1409.2	1284.0	794.6	334.7	119.5	57.7	47.8
12.5°	1524.5	1447.1	1298.0	687.7	196.9	54.8	30.9	28.1
15°	1563.8	1464.0	1281.2	556.9	108.3	32.3	25.3	25.3
17.5°	1618.7	1472.4	1240.4	410.7	61.9	23.9	23.9	23.9
20°	1660.9	1472.4	1163.0	279.9	38.0	21.1	21.1	21.1
22.5°	1682.0	1449.9	1068.8	177.2	26.7	19.7	21.1	21.1
25°	1660.9	1395.1	947.9	108.3	21.1	18.3	19.7	21.1
27.5°	1583.5	1285.4	786.1	68.9	16.9	18.3	19.7	21.1
30°	1454.2	1126.5	603.3	45.0	15.5	18.3	19.7	21.1
32.5°	1271.3	890.2	391.0	29.5	14.1	18.3	19.7	21.1
35°	992.9	630.0	236.3	18.3	14.1	18.3	21.1	22.5
37.5°	744.0	420.5	128.0	11.3	14.1	18.3	21.1	22.5
40°	516.1	244.7	54.8	9.8	14.1	19.7	22.5	22.5
42.5°	299.5	97.0	14.1	8.4	14.1	19.7	22.5	23.9
45°	109.7	19.7	4.2	8.4	15.5	19.7	22.5	25.3
47.5°	15.5	4.2	4.2	8.4	15.5	19.7	23.9	25.3
50°	4.2	4.2	4.2	8.4	15.5	21.1	25.3	26.7
52.5°	4.2	4.2	4.2	8.4	15.5	21.1	25.3	26.7
55°	4.2	4.2	4.2	8.4	15.5	21.1	25.3	26.7
57.5°	4.2	4.2	4.2	8.4	15.5	21.1	25.3	26.7
60°	4.2	4.2	4.2	8.4	14.1	21.1	25.3	26.7
62.5°	4.2	4.2	4.2	8.4	14.1	19.7	23.9	25.3
65°	4.2	4.2	4.2	8.4	12.7	18.3	23.9	23.9
67.5°	4.2	4.2	4.2	7.0	12.7	18.3	22.5	23.9
70°	4.2	4.2	4.2	7.0	11.3	16.9	21.1	22.5
72.5°	4.2	4.2	4.2	5.6	9.8	15.5	19.7	21.1
75°	2.8	4.2	4.2	5.6	9.8	14.1	18.3	19.7
77.5°	2.8	4.2	4.2	4.2	8.4	11.3	15.5	16.9
80°	2.8	2.8	4.2	4.2	7.0	9.8	12.7	14.1
82.5°	2.8	2.8	2.8	4.2	5.6	7.0	9.8	9.8
85°	2.8	2.8	2.8	2.8	4.2	5.6	7.0	7.0
87.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)