

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: P1309115

Luminaire Tested: LDSQA3D09R459030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309115
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: LDSQA3D09R459030DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

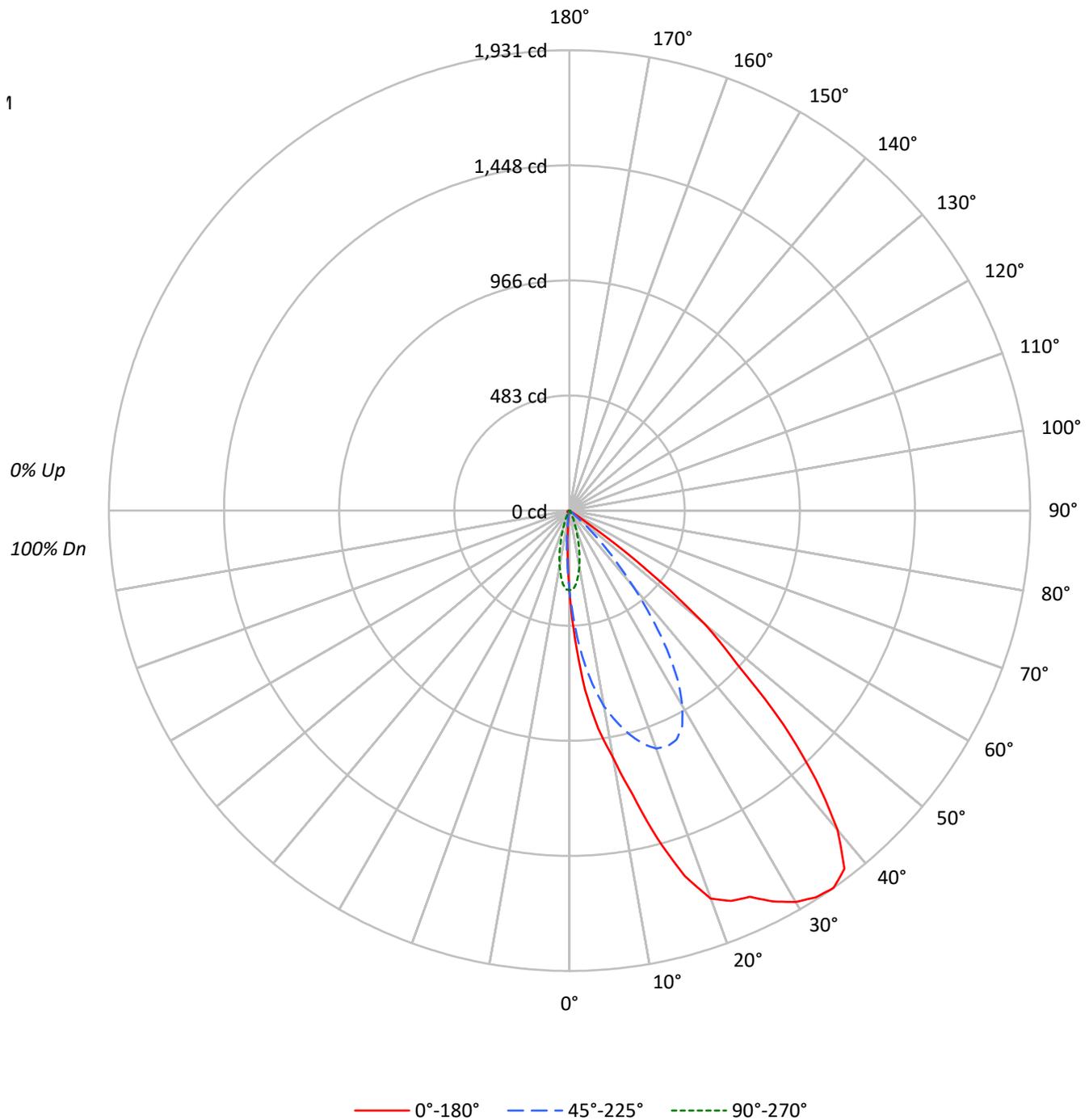
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 875.0 lumens
Efficiency: N/A
Efficacy: 78.8 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): 11.1
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	57350	57350	57350	57350	57350
5°	130680	106010	53645	21506	14678
10°	184148	145640	41464	4739	2169
15°	253772	173270	26477	1569	1302
20°	317323	194602	13819	1081	1081
25°	339578	201485	6404	836	969
30°	376910	188167	2903	875	1014
35°	406004	150010	925	925	1240
40°	392874	92941	495	1147	1484
45°	308517	43841	536	1437	1778
50°	198215	5091	777	1768	2358
55°	30116	450	871	2192	2852
60°	517	517	999	2514	3031
65°	611	611	1182	2690	3586
70°	755	755	1460	2971	4028
75°	466	998	1930	3394	4392
80°	694	1488	2182	3670	5058
85°	0	1383	2964	4347	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 308517 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	4.2
10°-20°	131.7	15.1
20°-30°	231.5	26.5
30°-40°	262.8	30.0
40°-50°	170.2	19.4
50°-60°	33.4	3.8
60°-70°	4.1	0.5
70°-80°	3.4	0.4
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°	399.6	45.7
0°-40°	662.5	75.7
0°-60°	866.0	99.0
0°-90°	875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	875.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	333	333	333	333	333	
5°	756	613	310	124	85	80
15°	1423	972	148	9	7	410
25°	1787	1060	34	4	5	838
35°	1931	714	4	4	6	1187
45°	1267	180	2	6	7	955
55°	100	2	3	7	10	191
65°	2	2	3	7	9	1
75°	1	2	3	5	7	1
85°	0	1	2	2	2	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°	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0
2.5°	540.8	539.3	541.5	526.9	526.1	515.2	512.2	499.8	483.0	474.9	455.9
5°	755.9	748.6	748.6	731.0	725.2	712.7	691.5	665.2	643.2	613.2	581.0
7.5°	922.0	920.6	920.6	905.2	890.6	873.0	844.5	814.5	779.3	733.2	686.4
10°	1053.0	1055.2	1048.6	1034.7	1013.5	994.5	960.8	924.2	881.1	832.8	770.6
12.5°	1218.4	1202.3	1197.2	1165.7	1138.6	1102.0	1061.8	1020.1	966.7	905.9	835.7
15°	1423.3	1402.8	1382.3	1340.6	1295.2	1238.9	1176.0	1114.5	1045.7	971.8	884.0
17.5°	1606.2	1606.2	1579.2	1513.3	1454.8	1371.3	1286.5	1204.5	1123.3	1025.9	916.2
20°	1731.4	1724.8	1704.3	1656.0	1589.4	1495.0	1384.5	1269.6	1171.6	1061.8	934.5
22.5°	1772.3	1770.9	1771.6	1743.1	1689.7	1591.6	1456.2	1320.8	1197.9	1070.6	925.7
25°	1787.0	1789.9	1797.2	1786.2	1746.0	1647.9	1500.1	1345.0	1206.0	1060.3	892.0
27.5°	1847.7	1841.9	1849.9	1842.6	1797.2	1680.1	1508.9	1339.1	1188.4	1023.0	832.0
30°	1895.3	1893.8	1907.7	1901.1	1841.9	1700.6	1500.9	1317.2	1145.2	946.2	737.6
32.5°	1922.4	1923.1	1926.7	1899.7	1811.9	1656.0	1461.3	1272.5	1064.0	845.9	614.7
35°	1931.1	1926.7	1906.3	1839.7	1719.7	1552.8	1364.0	1166.4	953.5	713.5	485.9
37.5°	1893.1	1870.4	1817.7	1718.2	1579.2	1423.3	1239.6	1032.5	802.0	563.5	362.2
40°	1747.5	1717.5	1650.9	1549.2	1419.6	1268.9	1080.8	864.2	622.0	413.4	254.7
42.5°	1529.4	1514.0	1444.5	1356.0	1246.2	1094.0	900.1	680.5	460.3	285.4	162.5
45°	1266.7	1246.9	1203.0	1124.7	1038.4	878.9	698.1	487.4	313.9	180.0	80.5
47.5°	949.8	951.3	921.3	862.0	777.1	644.0	477.8	327.1	196.8	92.9	18.3
50°	739.8	729.6	687.1	626.4	527.6	428.8	308.8	206.4	103.9	19.0	1.5
52.5°	409.8	416.4	393.7	373.9	322.7	256.1	182.2	104.6	22.0	2.2	1.5
55°	100.3	106.1	101.7	103.9	107.6	95.9	73.9	20.5	2.2	1.5	1.5
57.5°	2.2	2.2	2.2	2.2	3.7	5.1	5.1	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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°	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0
2.5°	446.4	432.5	406.9	330.8	265.6	214.4	183.7	180.7
5°	552.5	515.2	461.0	310.3	196.1	124.4	90.0	84.9
7.5°	636.6	584.0	500.5	276.6	133.9	63.7	35.1	29.3
10°	706.2	631.5	521.0	237.1	84.2	27.1	14.6	12.4
12.5°	753.7	663.7	524.7	193.2	48.3	13.2	9.5	8.8
15°	784.5	674.0	507.1	148.5	27.1	8.8	8.0	7.3
17.5°	796.9	665.2	473.5	107.6	14.6	6.6	6.6	6.6
20°	791.0	636.6	423.7	75.4	9.5	5.9	5.9	5.9
22.5°	763.2	587.6	361.5	50.5	6.6	5.1	5.1	5.1
25°	708.4	521.0	295.6	33.7	4.4	4.4	5.1	5.1
27.5°	626.4	439.1	226.1	22.7	3.7	4.4	5.1	5.1
30°	523.2	347.6	162.5	14.6	3.7	4.4	4.4	5.1
32.5°	415.6	253.2	106.8	8.8	2.9	4.4	5.1	5.9
35°	301.5	172.7	68.1	4.4	3.7	4.4	5.1	5.9
37.5°	211.5	112.7	39.5	2.9	3.7	4.4	5.9	5.9
40°	137.6	62.9	14.6	2.2	3.7	5.1	5.9	6.6
42.5°	71.7	22.0	2.9	2.2	3.7	5.1	6.6	7.3
45°	18.3	2.9	0.7	2.2	4.4	5.9	7.3	7.3
47.5°	2.2	0.7	0.7	2.9	4.4	6.6	7.3	8.0
50°	0.7	1.5	1.5	2.9	4.4	6.6	8.0	8.8
52.5°	1.5	1.5	1.5	2.9	5.1	6.6	8.8	9.5
55°	1.5	1.5	1.5	2.9	5.1	7.3	8.8	9.5
57.5°	1.5	1.5	1.5	2.9	5.1	7.3	8.8	8.8
60°	1.5	1.5	1.5	2.9	5.1	7.3	8.8	8.8
62.5°	1.5	1.5	2.2	2.9	5.1	6.6	8.8	8.8
65°	1.5	2.2	2.2	2.9	5.1	6.6	8.0	8.8
67.5°	1.5	1.5	2.2	2.9	5.1	6.6	8.0	8.8
70°	1.5	1.5	2.2	2.9	4.4	5.9	7.3	8.0
72.5°	1.5	1.5	2.2	2.9	4.4	5.9	6.6	7.3
75°	1.5	1.5	2.2	2.9	3.7	5.1	6.6	6.6
77.5°	1.5	1.5	2.2	2.2	3.7	4.4	5.9	5.9
80°	1.5	1.5	2.2	2.2	2.9	3.7	4.4	5.1
82.5°	1.5	1.5	1.5	2.2	2.2	2.9	3.7	3.7
85°	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2
87.5°	0.7	1.5	1.5	1.5	1.5	1.5	1.5	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)