

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: P1313714

Luminaire Tested: LDSQA3D13R459727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313714
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: LDSQA3D13R459727DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

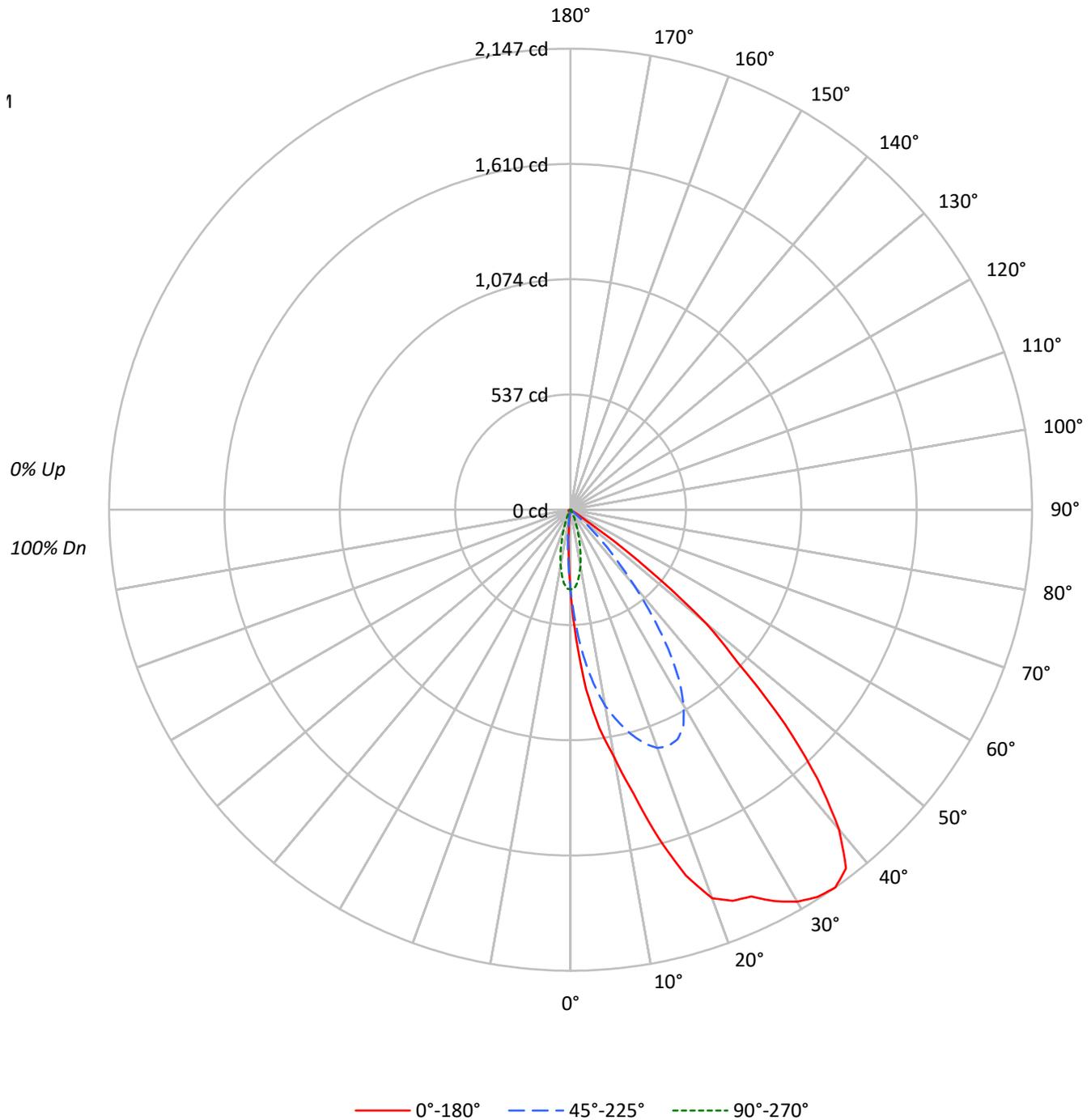
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 973.0 lumens
Efficiency: N/A
Efficacy: 66.6 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 (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	100				
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74				
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67				
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60				
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54				
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49				
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45				
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41				
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	63757	63757	63757	63757	63757
5°	145323	117887	59644	23909	16320
10°	204784	161938	46098	5264	2413
15°	282192	192669	29455	1747	1444
20°	352860	216393	15358	1191	1191
25°	377602	224060	7107	931	1083
30°	419129	209226	3242	974	1134
35°	451480	166808	1030	1030	1367
40°	436872	103373	540	1281	1641
45°	343078	48761	585	1583	1973
50°	220427	5680	884	1956	2626
55°	33479	480	991	2432	3183
60°	551	551	1137	2790	3376
65°	652	652	1345	2975	3994
70°	806	806	1662	3273	4532
75°	532	1065	2196	3793	4858
80°	793	1587	2380	4066	5653
85°	0	1581	3162	4742	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 343078 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	4.2
10°-20°	146.5	15.1
20°-30°	257.4	26.5
30°-40°	292.3	30.0
40°-50°	189.2	19.4
50°-60°	37.2	3.8
60°-70°	4.5	0.5
70°-80°	3.7	0.4
80°-90°	1.7	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°	444.4	45.7
0°-40°	736.6	75.7
0°-60°	963.0	99.0
0°-90°	973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	841	682	345	138	94	89
15°	1583	1081	165	10	8	456
25°	1987	1179	37	5	6	931
35°	2147	793	5	5	6	1320
45°	1409	200	2	6	8	1062
55°	112	2	3	8	11	213
65°	2	2	3	7	10	2
75°	1	2	3	6	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°	370.2	370.2	370.2	370.2	370.2	370.2	370.2	370.2	370.2	370.2	370.2
2.5°	601.3	599.7	602.2	585.9	585.1	572.9	569.6	555.8	537.1	528.1	507.0
5°	840.6	832.4	832.4	812.9	806.4	792.6	769.0	739.7	715.3	681.9	646.1
7.5°	1025.3	1023.7	1023.7	1006.6	990.3	970.8	939.0	905.7	866.6	815.4	763.3
10°	1171.0	1173.4	1166.1	1150.6	1127.0	1105.9	1068.4	1027.7	979.7	926.0	856.9
12.5°	1354.9	1337.0	1331.3	1296.3	1266.2	1225.5	1180.7	1134.3	1074.9	1007.4	929.3
15°	1582.7	1559.9	1537.1	1490.7	1440.3	1377.6	1307.7	1239.3	1162.8	1080.6	983.0
17.5°	1786.1	1786.1	1756.0	1682.8	1617.7	1524.9	1430.5	1339.4	1249.1	1140.8	1018.8
20°	1925.3	1918.0	1895.2	1841.5	1767.4	1662.4	1539.6	1411.8	1302.8	1180.7	1039.1
22.5°	1970.8	1969.2	1970.0	1938.3	1878.9	1769.9	1619.3	1468.8	1332.1	1190.5	1029.4
25°	1987.1	1990.4	1998.5	1986.3	1941.6	1832.5	1668.1	1495.6	1341.0	1179.1	991.9
27.5°	2054.7	2048.2	2057.1	2049.0	1998.5	1868.3	1677.9	1489.1	1321.5	1137.6	925.2
30°	2107.6	2105.9	2121.4	2114.1	2048.2	1891.1	1669.0	1464.7	1273.5	1052.1	820.2
32.5°	2137.7	2138.5	2142.5	2112.4	2014.8	1841.5	1625.0	1415.1	1183.2	940.7	683.5
35°	2147.4	2142.5	2119.8	2045.7	1912.3	1726.7	1516.8	1297.1	1060.3	793.4	540.3
37.5°	2105.1	2079.9	2021.3	1910.6	1756.0	1582.7	1378.5	1148.2	891.8	626.6	402.8
40°	1943.2	1909.8	1835.8	1722.7	1578.6	1411.0	1201.9	961.0	691.7	459.8	283.2
42.5°	1700.7	1683.6	1606.3	1507.8	1385.8	1216.5	1000.9	756.8	511.8	317.4	180.6
45°	1408.6	1386.6	1337.8	1250.7	1154.7	977.3	776.3	541.9	349.1	200.2	89.5
47.5°	1056.2	1057.8	1024.5	958.6	864.2	716.1	531.4	363.7	218.9	103.3	20.3
50°	822.7	811.3	764.1	696.6	586.7	476.8	343.4	229.5	115.5	21.2	1.6
52.5°	455.7	463.0	437.8	415.8	358.9	284.8	202.6	116.4	24.4	2.4	1.6
55°	111.5	118.0	113.1	115.5	119.6	106.6	82.2	22.8	2.4	1.6	1.6
57.5°	2.4	2.4	2.4	2.4	4.1	5.7	5.7	1.6	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	370.2	370.2	370.2	370.2	370.2	370.2	370.2	370.2
2.5°	496.4	480.9	452.4	367.8	295.4	238.4	204.2	201.0
5°	614.4	572.9	512.6	345.0	218.1	138.3	100.1	94.4
7.5°	707.9	649.4	556.6	307.6	148.9	70.8	39.1	32.5
10°	785.2	702.2	579.4	263.6	93.6	30.1	16.3	13.8
12.5°	838.1	738.1	583.4	214.8	53.7	14.6	10.6	9.8
15°	872.3	749.4	563.9	165.2	30.1	9.8	9.0	8.1
17.5°	886.1	739.7	526.5	119.6	16.3	7.3	7.3	7.3
20°	879.6	707.9	471.1	83.8	10.6	6.5	6.5	6.5
22.5°	848.7	653.4	402.0	56.1	7.3	5.7	5.7	5.7
25°	787.7	579.4	328.7	37.4	4.9	4.9	5.7	5.7
27.5°	696.6	488.2	251.4	25.2	4.1	4.9	5.7	5.7
30°	581.8	386.5	180.6	16.3	4.1	4.9	4.9	5.7
32.5°	462.2	281.5	118.8	9.8	3.3	4.9	5.7	6.5
35°	335.3	192.0	75.7	4.9	4.1	4.9	5.7	6.5
37.5°	235.2	125.3	43.9	3.3	4.1	4.9	6.5	6.5
40°	153.0	70.0	16.3	2.4	4.1	5.7	6.5	7.3
42.5°	79.7	24.4	3.3	2.4	4.1	5.7	7.3	8.1
45°	20.3	3.3	0.8	2.4	4.9	6.5	8.1	8.1
47.5°	2.4	0.8	0.8	3.3	4.9	7.3	8.1	9.0
50°	0.8	1.6	1.6	3.3	4.9	7.3	9.0	9.8
52.5°	1.6	1.6	1.6	3.3	5.7	7.3	9.8	10.6
55°	1.6	1.6	1.6	3.3	5.7	8.1	9.8	10.6
57.5°	1.6	1.6	1.6	3.3	5.7	8.1	9.8	9.8
60°	1.6	1.6	1.6	3.3	5.7	8.1	9.8	9.8
62.5°	1.6	1.6	2.4	3.3	5.7	7.3	9.8	9.8
65°	1.6	2.4	2.4	3.3	5.7	7.3	9.0	9.8
67.5°	1.6	1.6	2.4	3.3	5.7	7.3	9.0	9.8
70°	1.6	1.6	2.4	3.3	4.9	6.5	8.1	9.0
72.5°	1.6	1.6	2.4	3.3	4.9	6.5	7.3	8.1
75°	1.6	1.6	2.4	3.3	4.1	5.7	7.3	7.3
77.5°	1.6	1.6	2.4	2.4	4.1	4.9	6.5	6.5
80°	1.6	1.6	2.4	2.4	3.3	4.1	4.9	5.7
82.5°	1.6	1.6	1.6	2.4	2.4	3.3	4.1	4.1
85°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4
87.5°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)