

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: P1313723

Luminaire Tested: LDSQA3D13R509727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R509727DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

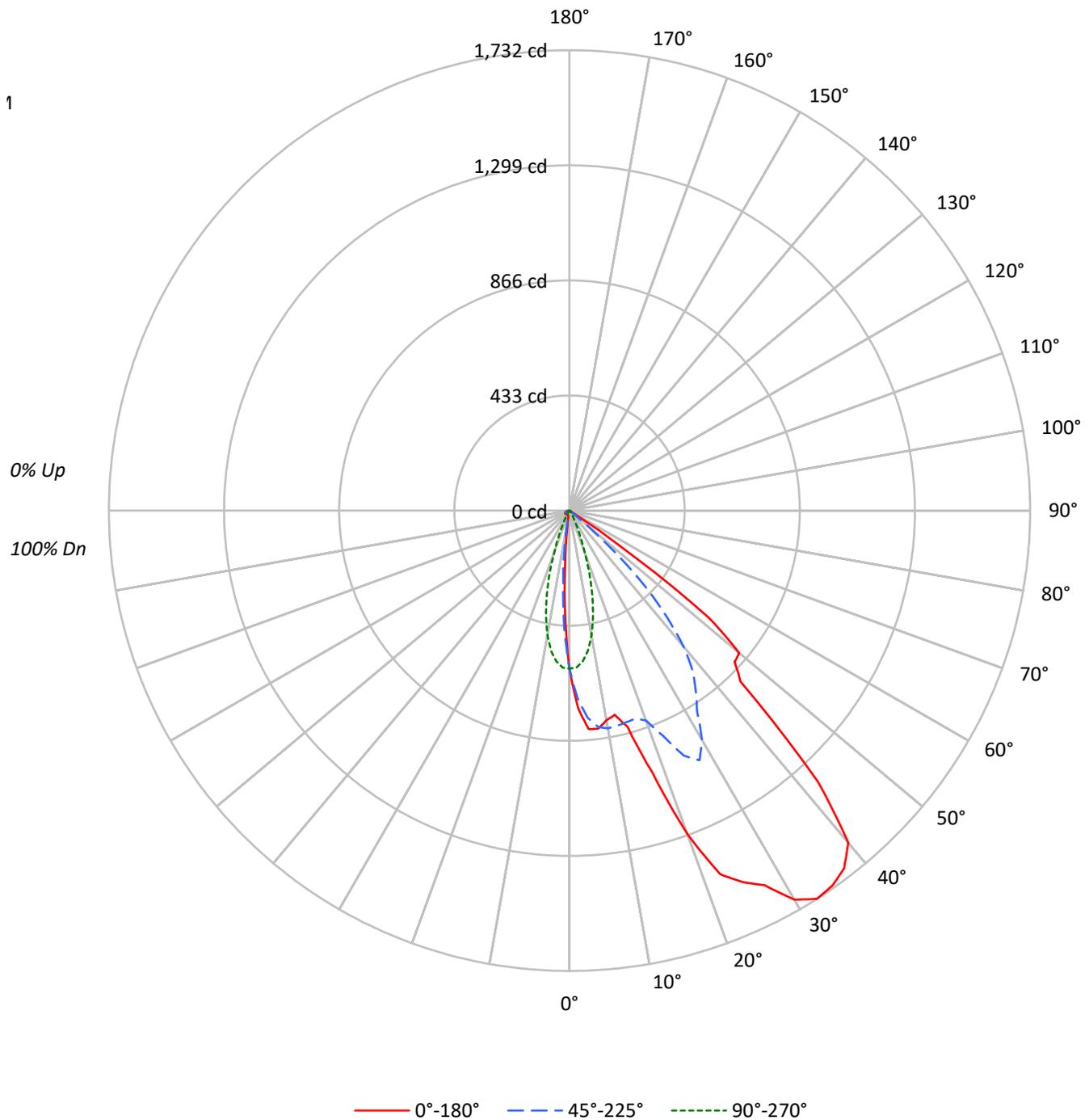
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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	102	102	102	100	
1	112	109	106	103	110	107	104	101	102	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	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	102317	102317	102317	102317	102317
5°	142661	135331	98334	47266	30669
10°	140043	145447	83103	9968	4267
15°	150180	146989	58767	3477	3334
20°	237140	153915	31029	2987	3134
25°	293040	193295	12371	2774	3097
30°	335964	198249	5011	2744	3242
35°	362210	173999	2229	2901	3595
40°	366638	149843	1641	3282	4024
45°	221591	97107	1583	3556	4555
50°	223267	16799	1742	4153	5225
55°	65967	991	1952	4654	5855
60°	1137	1137	1963	5029	6441
65°	978	978	1997	5298	6968
70°	1209	1209	2065	5740	7805
75°	1065	1065	2196	5989	8118
80°	793	1587	2380	5653	8926
85°	1581	3162	3162	6521	8102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 253107 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	5.2
10°-20°	119.3	12.9
20°-30°	223.4	24.2
30°-40°	267.2	28.9
40°-50°	191.5	20.7
50°-60°	59.0	6.4
60°-70°	7.7	0.8
70°-80°	5.6	0.6
80°-90°	2.3	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°	390.8	42.3
0°-40°	657.9	71.2
0°-60°	908.4	98.3
0°-90°	924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	594	594	594	594	594	
5°	825	783	569	273	177	77
15°	842	824	330	20	19	270
25°	1542	1017	65	15	16	711
35°	1723	828	11	14	17	1069
45°	910	399	6	15	19	836
55°	220	3	6	16	20	283
65°	2	2	5	13	17	3
75°	2	2	3	9	12	1
85°	1	2	2	3	4	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°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1
2.5°	743.0	744.6	747.0	740.5	736.5	733.2	727.5	725.9	712.1	706.4	700.7
5°	825.2	823.5	825.2	822.7	821.1	816.2	811.3	803.2	794.2	782.8	769.8
7.5°	827.6	826.0	829.2	829.2	832.5	832.5	832.5	833.3	828.4	820.3	808.9
10°	800.8	800.8	804.0	802.4	808.1	810.5	816.2	826.0	830.9	831.7	828.4
12.5°	786.9	786.9	787.7	784.5	786.1	788.5	795.1	806.4	817.8	829.2	835.7
15°	842.3	843.9	832.5	816.2	804.0	791.0	786.9	794.2	806.4	824.4	839.0
17.5°	1030.2	1032.7	1020.5	981.4	944.0	890.3	842.3	818.7	805.6	820.3	839.8
20°	1293.9	1284.9	1263.8	1222.3	1167.8	1084.8	1009.9	934.2	861.8	839.8	846.3
22.5°	1480.3	1477.0	1459.9	1413.5	1366.3	1289.0	1193.8	1088.0	983.0	916.3	881.3
25°	1542.1	1539.7	1524.2	1496.5	1470.5	1411.9	1326.4	1219.8	1110.0	1017.2	929.3
27.5°	1588.5	1585.2	1560.8	1529.9	1503.0	1443.6	1365.5	1284.9	1184.0	1058.7	923.6
30°	1689.4	1680.4	1646.3	1590.9	1539.7	1457.5	1371.2	1271.1	1134.4	996.9	865.0
32.5°	1731.7	1726.8	1697.5	1652.8	1596.6	1489.2	1358.2	1190.5	1010.7	891.9	795.9
35°	1722.8	1715.4	1685.3	1634.1	1565.7	1462.3	1287.4	1057.1	910.6	827.6	719.4
37.5°	1695.9	1685.3	1649.5	1589.3	1506.3	1371.2	1142.5	948.9	854.5	760.9	615.2
40°	1630.8	1613.7	1572.2	1509.5	1426.5	1249.1	1010.7	883.8	795.9	666.5	498.8
42.5°	1381.8	1372.8	1393.2	1382.6	1309.4	1100.2	917.1	824.4	703.1	538.7	361.3
45°	909.8	925.3	961.9	1024.5	1039.2	946.4	840.6	726.7	578.6	398.7	208.3
47.5°	842.3	839.0	848.0	860.2	862.6	823.5	727.5	600.6	429.7	227.9	57.8
50°	833.3	828.4	821.1	806.4	775.5	699.8	590.8	437.8	248.2	62.7	4.1
52.5°	658.3	653.5	653.5	632.3	592.4	519.2	407.7	240.9	69.2	4.1	3.3
55°	219.7	234.4	231.9	231.1	249.0	229.5	175.8	61.8	5.7	3.3	3.3
57.5°	4.1	4.1	4.1	7.3	11.4	16.3	9.8	4.9	3.3	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
77.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1
2.5°	687.6	676.2	654.3	591.6	522.4	443.5	389.8	383.3
5°	749.5	732.4	696.6	568.8	411.0	273.4	203.4	177.4
7.5°	790.2	767.4	723.4	531.4	299.5	144.0	77.3	61.8
10°	814.6	793.4	737.3	475.2	190.4	57.0	26.0	24.4
12.5°	827.6	807.3	742.2	407.7	107.4	26.0	20.3	20.3
15°	836.6	814.6	734.8	329.6	53.7	19.5	18.7	18.7
17.5°	840.6	813.8	713.7	248.2	28.5	17.9	17.9	17.9
20°	843.1	804.8	674.6	169.3	19.5	16.3	17.1	17.1
22.5°	845.5	782.8	623.3	107.4	15.5	15.5	16.3	16.3
25°	840.6	744.6	550.9	65.1	13.8	14.6	15.5	16.3
27.5°	805.6	686.8	463.0	39.9	12.2	13.8	15.5	16.3
30°	745.4	602.2	361.3	25.2	11.4	13.8	15.5	16.3
32.5°	667.3	505.4	258.0	15.5	11.4	13.8	15.5	16.3
35°	562.3	386.5	167.6	10.6	11.4	13.8	16.3	17.1
37.5°	444.3	270.2	90.3	8.1	11.4	13.8	16.3	17.1
40°	319.8	161.9	32.6	7.3	10.6	14.6	17.1	17.9
42.5°	187.2	60.2	5.7	6.5	10.6	14.6	17.1	17.9
45°	53.7	6.5	3.3	6.5	10.6	14.6	17.9	18.7
47.5°	4.1	2.4	3.3	6.5	10.6	14.6	17.9	19.5
50°	2.4	2.4	2.4	6.5	10.6	15.5	18.7	19.5
52.5°	3.3	3.3	3.3	6.5	10.6	15.5	18.7	19.5
55°	3.3	3.3	3.3	6.5	10.6	15.5	18.7	19.5
57.5°	3.3	3.3	3.3	6.5	10.6	14.6	18.7	19.5
60°	3.3	3.3	3.3	5.7	9.8	14.6	17.9	18.7
62.5°	3.3	3.3	3.3	5.7	9.8	13.8	17.9	17.9
65°	3.3	3.3	3.3	4.9	9.0	13.0	16.3	17.1
67.5°	3.3	3.3	3.3	4.9	8.1	12.2	15.5	16.3
70°	2.4	3.3	3.3	4.1	7.3	11.4	14.6	15.5
72.5°	2.4	2.4	3.3	4.1	6.5	9.8	13.0	13.8
75°	2.4	2.4	2.4	3.3	5.7	9.0	11.4	12.2
77.5°	2.4	2.4	2.4	3.3	4.9	7.3	10.6	10.6
80°	1.6	2.4	2.4	2.4	4.1	5.7	8.1	9.0
82.5°	1.6	1.6	1.6	2.4	3.3	4.9	6.5	6.5
85°	1.6	1.6	1.6	1.6	2.4	3.3	4.1	4.1
87.5°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)