

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: P1316816

Luminaire Tested: LDSQA3D17R709740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R709740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

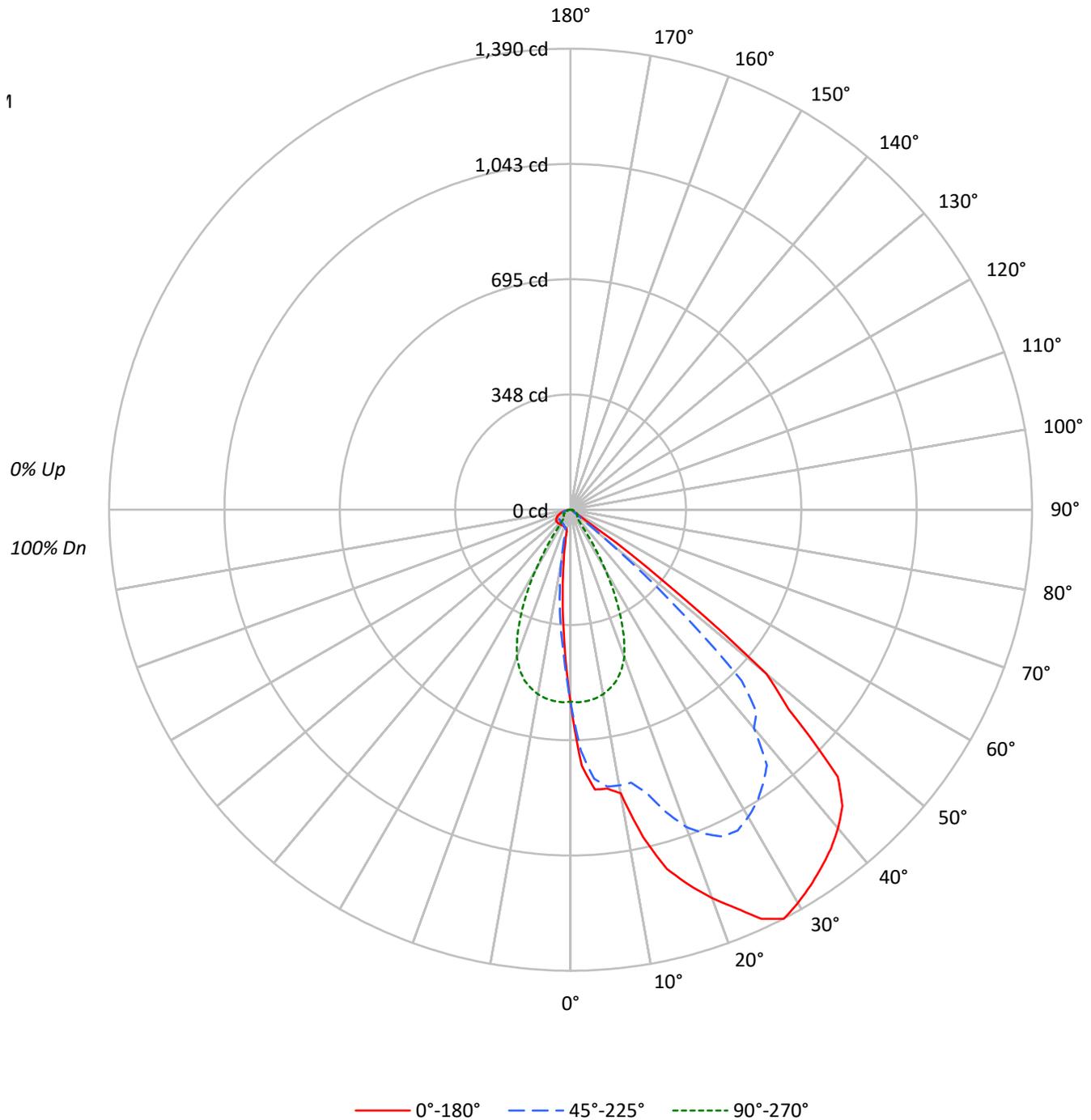
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1099.0 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	99648	99648	99648	99648	99648
5°	146378	140777	100029	59713	46781
10°	151778	147633	98789	28575	11560
15°	199890	157419	95158	10234	10003
20°	228325	186501	86616	9824	10062
25°	258531	206635	68011	9482	9957
30°	272287	212766	42160	9426	10659
35°	276872	212368	13897	9692	11269
40°	281768	193166	6722	10364	12343
45°	277293	177384	6990	10936	13371
50°	206146	32741	7020	12030	14709
55°	16484	4504	7476	12731	15734
60°	3444	4719	7302	12882	16327
65°	3545	4564	7131	12714	16790
70°	3122	4381	6899	11934	16315
75°	2462	4126	5789	11645	15770
80°	2479	3670	6149	11108	14877
85°	2371	4940	7311	9880	12251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 280654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	4.8
10°-20°	148.1	13.5
20°-30°	248.6	22.6
30°-40°	299.0	27.2
40°-50°	237.0	21.6
50°-60°	75.8	6.9
60°-70°	21.2	1.9
70°-80°	12.6	1.1
80°-90°	4.0	0.4
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°	449.4	40.9
0°-40°	748.4	68.1
0°-60°	1061.2	96.6
0°-90°	1099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	579	579	579	579	579	
5°	847	814	579	345	271	80
15°	1121	883	534	57	56	315
25°	1360	1087	358	50	52	622
35°	1317	1010	66	46	54	825
45°	1138	728	29	45	55	818
55°	55	15	25	42	52	172
65°	9	11	18	31	41	8
75°	4	6	9	18	24	4
85°	1	2	4	5	6	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°	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6
2.5°	771.9	776.9	776.9	770.7	773.2	763.2	755.7	744.5	742.0	728.3	710.8
5°	846.7	844.2	844.2	839.2	841.7	838.0	834.3	831.8	824.3	814.3	804.3
7.5°	848.0	850.5	851.7	850.5	855.5	851.7	851.7	851.7	846.7	841.7	831.8
10°	867.9	864.2	860.4	851.7	846.7	843.0	843.0	844.2	846.7	844.2	838.0
12.5°	1011.3	997.6	991.4	970.2	954.0	926.5	895.4	871.7	850.5	843.0	838.0
15°	1121.1	1118.6	1106.1	1086.2	1066.2	1033.8	997.6	961.5	922.8	882.9	854.2
17.5°	1185.9	1180.9	1168.5	1147.3	1123.6	1093.6	1065.0	1037.5	1000.1	955.2	909.1
20°	1245.8	1234.6	1218.3	1193.4	1169.7	1141.0	1109.9	1083.7	1052.5	1017.6	964.0
22.5°	1299.4	1289.4	1263.2	1229.6	1205.9	1178.4	1151.0	1126.1	1097.4	1057.5	1008.8
25°	1360.5	1338.1	1295.7	1252.0	1223.3	1200.9	1180.9	1161.0	1131.1	1087.4	1030.0
27.5°	1390.4	1359.3	1313.1	1269.5	1242.0	1218.3	1197.1	1177.2	1143.5	1089.9	1023.8
30°	1369.2	1351.8	1319.4	1285.7	1263.2	1240.8	1215.8	1185.9	1132.3	1069.9	1008.8
32.5°	1344.3	1335.6	1320.6	1300.6	1286.9	1264.5	1229.6	1180.9	1106.1	1045.0	978.9
35°	1316.9	1313.1	1308.1	1299.4	1290.7	1269.5	1225.8	1154.7	1079.9	1010.1	946.5
37.5°	1288.2	1284.4	1288.2	1286.9	1279.4	1252.0	1185.9	1119.8	1042.5	971.4	848.0
40°	1253.3	1250.8	1257.0	1263.2	1254.5	1218.3	1147.3	1067.5	998.9	859.2	816.8
42.5°	1212.1	1210.9	1222.1	1227.1	1214.6	1161.0	1077.4	1018.8	874.2	829.3	729.5
45°	1138.5	1141.0	1146.0	1152.3	1144.8	1086.2	1010.1	902.8	839.2	728.3	415.3
47.5°	891.6	894.1	919.1	971.4	1007.6	987.6	922.8	843.0	750.7	416.5	130.9
50°	769.4	766.9	768.2	780.6	809.3	836.8	816.8	773.2	447.7	122.2	16.2
52.5°	337.9	375.4	415.3	527.5	599.8	675.9	690.9	483.8	145.9	16.2	16.2
55°	54.9	57.4	72.3	106.0	190.8	288.1	349.2	162.1	15.0	15.0	15.0
57.5°	11.2	11.2	11.2	12.5	18.7	39.9	46.1	13.7	13.7	13.7	15.0
60°	10.0	10.0	10.0	10.0	11.2	11.2	11.2	12.5	12.5	13.7	13.7
62.5°	10.0	10.0	10.0	10.0	10.0	10.0	11.2	11.2	12.5	12.5	13.7
65°	8.7	8.7	8.7	8.7	10.0	10.0	10.0	10.0	11.2	11.2	12.5
67.5°	7.5	7.5	7.5	7.5	8.7	8.7	8.7	10.0	10.0	10.0	11.2
70°	6.2	6.2	6.2	6.2	7.5	7.5	7.5	7.5	8.7	8.7	8.7
72.5°	5.0	5.0	5.0	5.0	6.2	6.2	6.2	6.2	7.5	7.5	7.5
75°	3.7	3.7	5.0	5.0	5.0	5.0	5.0	5.0	6.2	6.2	6.2
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0
80°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7
82.5°	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	578.6	578.6	578.6	578.6	578.6	578.6	578.6	578.6
2.5°	699.6	682.1	658.4	581.1	510.0	445.2	412.8	409.0
5°	788.1	771.9	732.0	578.6	442.7	345.4	286.8	270.6
7.5°	821.8	808.1	773.2	573.6	379.1	248.2	182.1	157.1
10°	830.5	821.8	791.9	564.9	313.0	163.4	86.0	66.1
12.5°	834.3	828.0	799.3	551.2	246.9	84.8	58.6	58.6
15°	840.5	834.3	806.8	533.7	182.1	57.4	56.1	56.1
17.5°	867.9	848.0	816.8	507.5	119.7	54.9	54.9	54.9
20°	912.8	869.2	821.8	472.6	74.8	53.6	53.6	54.9
22.5°	950.2	891.6	820.5	420.2	54.9	51.1	52.4	53.6
25°	966.4	901.6	809.3	357.9	47.4	49.9	52.4	52.4
27.5°	964.0	905.3	799.3	286.8	44.9	48.6	51.1	53.6
30°	950.2	895.4	776.9	212.0	42.4	47.4	51.1	53.6
32.5°	926.5	856.7	732.0	137.2	41.2	47.4	51.1	53.6
35°	849.2	794.4	667.2	66.1	39.9	46.1	52.4	53.6
37.5°	804.3	728.3	508.8	32.4	38.7	46.1	52.4	53.6
40°	732.0	543.7	229.5	29.9	38.7	46.1	52.4	54.9
42.5°	460.2	223.2	37.4	28.7	37.4	46.1	52.4	54.9
45°	168.3	29.9	20.0	28.7	37.4	44.9	52.4	54.9
47.5°	17.5	17.5	18.7	27.4	36.2	44.9	52.4	54.9
50°	16.2	17.5	18.7	26.2	34.9	44.9	51.1	54.9
52.5°	16.2	17.5	18.7	26.2	33.7	43.6	51.1	54.9
55°	16.2	17.5	17.5	24.9	32.4	42.4	49.9	52.4
57.5°	15.0	16.2	17.5	23.7	31.2	39.9	48.6	51.1
60°	15.0	16.2	17.5	21.2	29.9	37.4	46.1	47.4
62.5°	13.7	15.0	16.2	20.0	27.4	34.9	42.4	44.9
65°	13.7	13.7	15.0	17.5	24.9	31.2	38.7	41.2
67.5°	11.2	12.5	12.5	15.0	21.2	27.4	34.9	37.4
70°	10.0	10.0	11.2	13.7	18.7	23.7	29.9	32.4
72.5°	8.7	8.7	8.7	11.2	16.2	21.2	26.2	28.7
75°	7.5	7.5	7.5	8.7	13.7	17.5	22.4	23.7
77.5°	6.2	6.2	6.2	7.5	11.2	15.0	17.5	20.0
80°	5.0	5.0	5.0	6.2	8.7	11.2	13.7	15.0
82.5°	3.7	3.7	3.7	5.0	6.2	7.5	10.0	10.0
85°	2.5	2.5	2.5	3.7	3.7	5.0	6.2	6.2
87.5°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)