

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: P1320331

Luminaire Tested: LDSQA3D17R709840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320331
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: LDSQA3D17R709840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

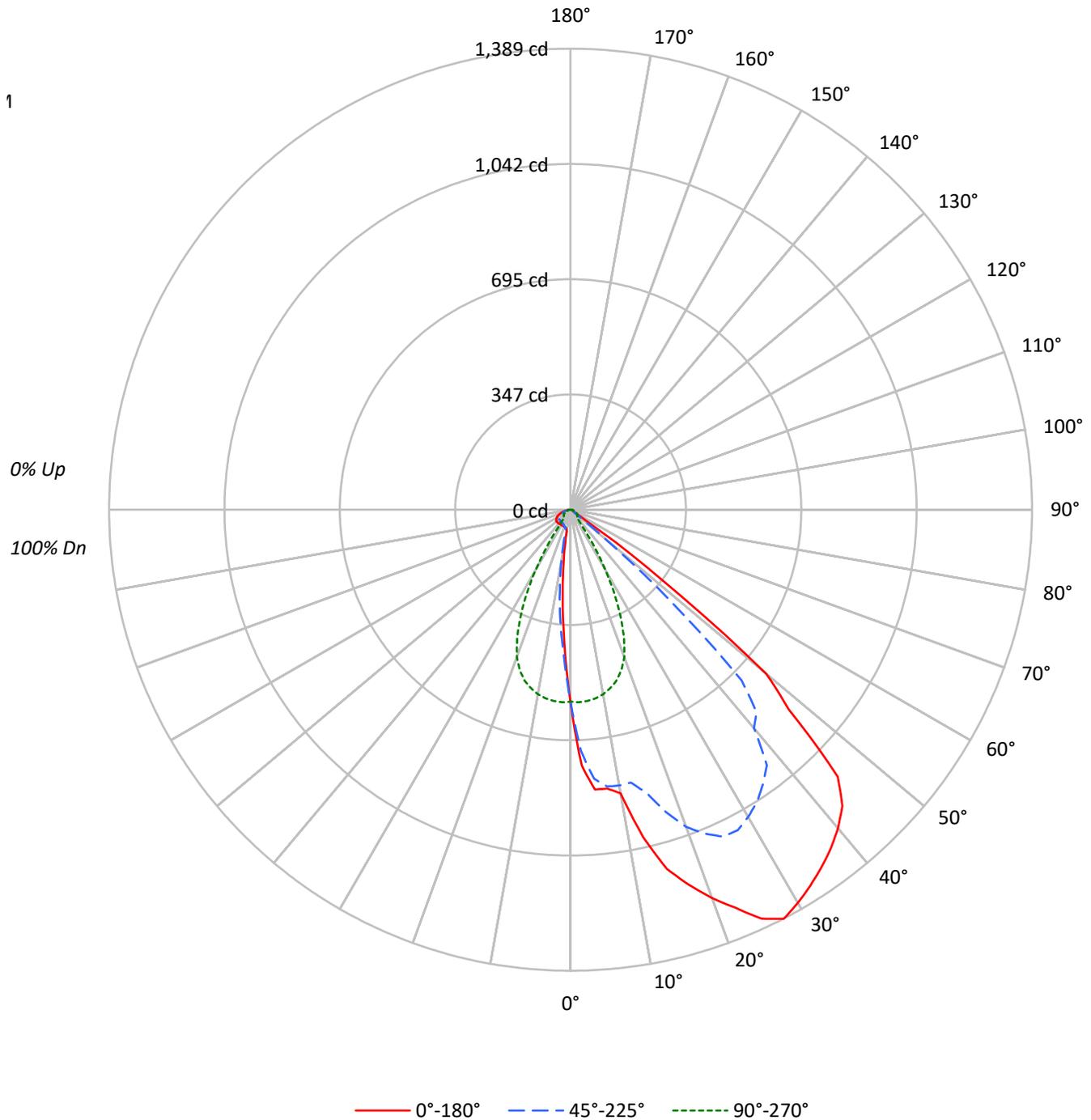
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1098.0 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90	
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80	
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57	
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51	
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46	
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38	
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	99562	99562	99562	99562	99562
5°	146257	140656	99942	59661	46747
10°	151638	147511	98702	28540	11542
15°	199712	157277	95068	10216	10003
20°	228105	186318	86543	9824	10043
25°	258303	206445	67954	9463	9938
30°	272048	212587	42120	9406	10659
35°	276619	212179	13876	9692	11269
40°	281498	192986	6722	10364	12320
45°	277049	177214	6990	10936	13347
50°	205958	32714	7020	12030	14683
55°	16454	4504	7476	12731	15704
60°	3444	4719	7302	12882	16292
65°	3545	4564	7091	12674	16749
70°	3122	4381	6899	11934	16315
75°	2462	4126	5789	11578	15770
80°	2479	3670	6149	11108	14877
85°	2371	4940	7311	9880	12251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 280386 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	4.8
10°-20°	148.0	13.5
20°-30°	248.4	22.6
30°-40°	298.7	27.2
40°-50°	236.8	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°	449.0	40.9
0°-40°	747.7	68.1
0°-60°	1060.2	96.6
0°-90°	1098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	578	578	578	578	578	
5°	846	814	578	345	270	80
15°	1120	882	533	57	56	315
25°	1359	1086	358	50	52	621
35°	1316	1009	66	46	54	824
45°	1138	728	29	45	55	817
55°	55	15	25	42	52	172
65°	9	11	17	31	41	8
75°	4	6	9	17	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°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
2.5°	771.2	776.2	776.2	770.0	772.5	762.5	755.0	743.8	741.3	727.6	710.2
5°	846.0	843.5	843.5	838.5	841.0	837.2	833.5	831.0	823.5	813.6	803.6
7.5°	847.2	849.7	850.9	849.7	854.7	850.9	850.9	850.9	846.0	841.0	831.0
10°	867.1	863.4	859.7	850.9	846.0	842.2	842.2	843.5	846.0	843.5	837.2
12.5°	1010.4	996.7	990.5	969.3	953.1	925.7	894.5	870.9	849.7	842.2	837.2
15°	1120.1	1117.6	1105.1	1085.2	1065.2	1032.8	996.7	960.6	922.0	882.1	853.4
17.5°	1184.8	1179.9	1167.4	1146.2	1122.5	1092.6	1064.0	1036.6	999.2	954.4	908.3
20°	1244.6	1233.4	1217.2	1192.3	1168.6	1140.0	1108.8	1082.7	1051.5	1016.6	963.1
22.5°	1298.2	1288.3	1262.1	1228.4	1204.8	1177.4	1150.0	1125.0	1096.4	1056.5	1007.9
25°	1359.3	1336.8	1294.5	1250.9	1222.2	1199.8	1179.9	1159.9	1130.0	1086.4	1029.1
27.5°	1389.2	1358.0	1311.9	1268.3	1240.9	1217.2	1196.1	1176.1	1142.5	1088.9	1022.9
30°	1368.0	1350.5	1318.2	1284.5	1262.1	1239.7	1214.7	1184.8	1131.3	1069.0	1007.9
32.5°	1343.1	1334.3	1319.4	1299.5	1285.8	1263.3	1228.4	1179.9	1105.1	1044.1	978.0
35°	1315.7	1311.9	1306.9	1298.2	1289.5	1268.3	1224.7	1153.7	1078.9	1009.2	945.6
37.5°	1287.0	1283.3	1287.0	1285.8	1278.3	1250.9	1184.8	1118.8	1041.6	970.5	847.2
40°	1252.1	1249.6	1255.9	1262.1	1253.4	1217.2	1146.2	1066.5	998.0	858.4	816.1
42.5°	1211.0	1209.8	1221.0	1226.0	1213.5	1159.9	1076.4	1017.9	873.4	828.5	728.8
45°	1137.5	1140.0	1145.0	1151.2	1143.7	1085.2	1009.2	902.0	838.5	727.6	414.9
47.5°	890.8	893.3	918.2	970.5	1006.7	986.7	922.0	842.2	750.0	416.1	130.8
50°	768.7	766.2	767.5	779.9	808.6	836.0	816.1	772.5	447.3	122.1	16.2
52.5°	337.6	375.0	414.9	527.0	599.3	675.3	690.2	483.4	145.8	16.2	16.2
55°	54.8	57.3	72.3	105.9	190.6	287.8	348.8	162.0	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°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
2.5°	698.9	681.5	657.8	580.6	509.6	444.8	412.4	408.7
5°	787.4	771.2	731.3	578.1	442.3	345.1	286.6	270.4
7.5°	821.0	807.3	772.5	573.1	378.8	247.9	181.9	157.0
10°	829.8	821.0	791.1	564.4	312.7	163.2	86.0	66.0
12.5°	833.5	827.3	798.6	550.7	246.7	84.7	58.6	58.6
15°	839.7	833.5	806.1	533.2	181.9	57.3	56.1	56.1
17.5°	867.1	847.2	816.1	507.1	119.6	54.8	54.8	54.8
20°	912.0	868.4	821.0	472.2	74.8	53.6	53.6	54.8
22.5°	949.4	890.8	819.8	419.9	54.8	51.1	52.3	53.6
25°	965.6	900.8	808.6	357.6	47.3	49.8	52.3	52.3
27.5°	963.1	904.5	798.6	286.6	44.9	48.6	51.1	53.6
30°	949.4	894.5	776.2	211.8	42.4	47.3	51.1	53.6
32.5°	925.7	855.9	731.3	137.0	41.1	47.3	51.1	53.6
35°	848.5	793.6	666.6	66.0	39.9	46.1	52.3	53.6
37.5°	803.6	727.6	508.3	32.4	38.6	46.1	52.3	53.6
40°	731.3	543.2	229.2	29.9	38.6	46.1	52.3	54.8
42.5°	459.7	223.0	37.4	28.7	37.4	46.1	52.3	54.8
45°	168.2	29.9	19.9	28.7	37.4	44.9	52.3	54.8
47.5°	17.4	17.4	18.7	27.4	36.1	44.9	52.3	54.8
50°	16.2	17.4	18.7	26.2	34.9	44.9	51.1	54.8
52.5°	16.2	17.4	18.7	26.2	33.6	43.6	51.1	54.8
55°	16.2	17.4	17.4	24.9	32.4	42.4	49.8	52.3
57.5°	15.0	16.2	17.4	23.7	31.1	39.9	48.6	51.1
60°	15.0	16.2	17.4	21.2	29.9	37.4	46.1	47.3
62.5°	13.7	15.0	16.2	19.9	27.4	34.9	42.4	44.9
65°	13.7	13.7	15.0	17.4	24.9	31.1	38.6	41.1
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	17.4	22.4	23.7
77.5°	6.2	6.2	6.2	7.5	11.2	15.0	17.4	19.9
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)