

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: P1311716

Luminaire Tested: LDSQA3D17R709040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311716
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: LDSQA3D17R709040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

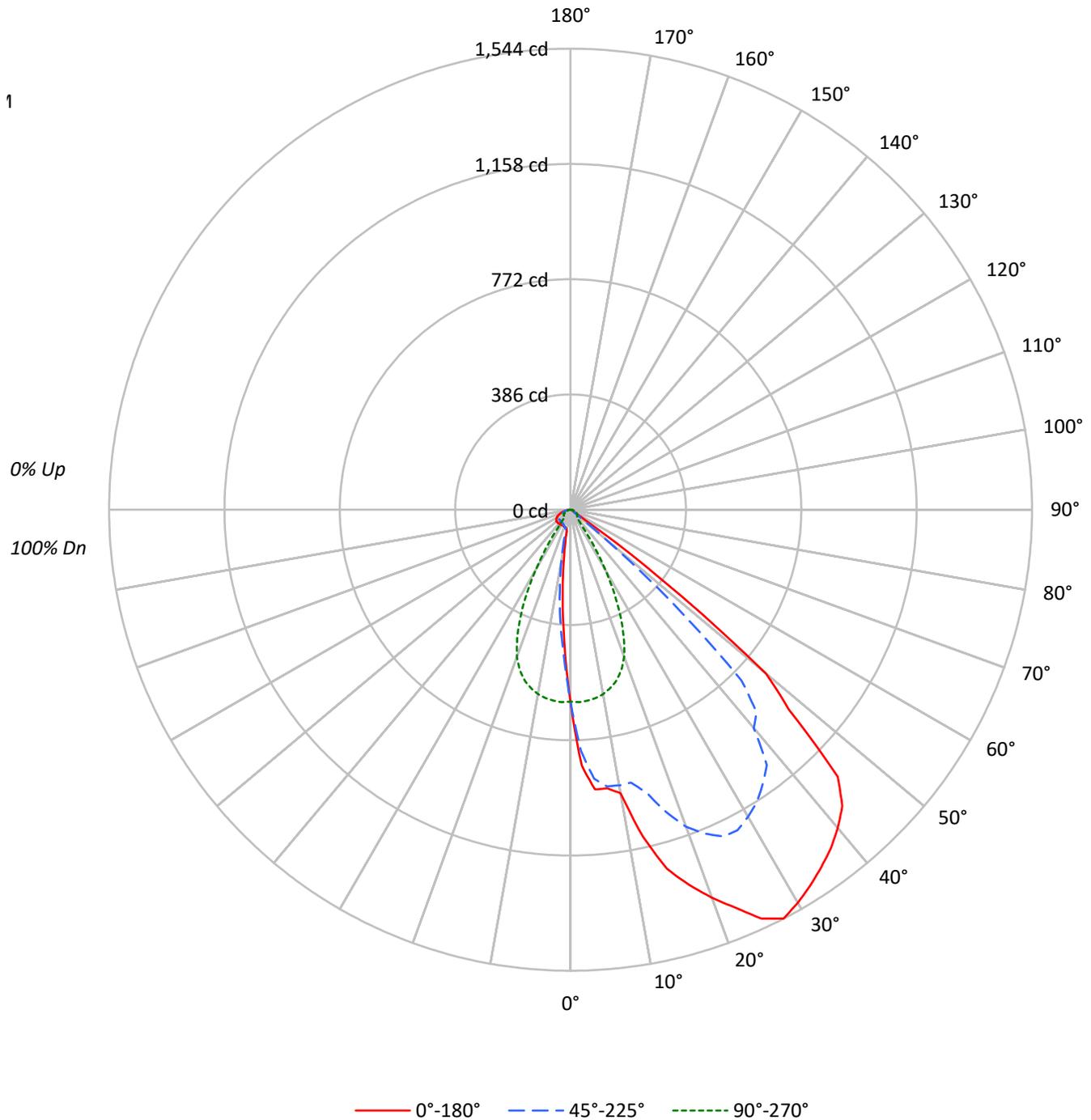
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1220.0 lumens
Efficiency: N/A
Efficacy: 57.5 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 (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
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°	110619	110619	110619	110619	110619
5°	162508	156284	111041	66300	51933
10°	168496	163897	109667	31706	12836
15°	221892	174750	105642	11358	11108
20°	253452	207028	96165	10905	11161
25°	286997	229381	75498	10527	11041
30°	302276	236193	46793	10460	11833
35°	307336	235748	15432	10765	12510
40°	312771	214434	7464	11511	13692
45°	307835	196894	7745	12129	14833
50°	228840	36358	7797	13343	16317
55°	18286	4984	8317	14142	17445
60°	3823	5236	8094	14294	18118
65°	3953	5094	7906	14100	18623
70°	3474	4884	7654	13243	18128
75°	2795	4591	6455	12909	17500
80°	2777	4166	6843	12397	16464
85°	2766	5533	8299	10868	13635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 311537 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	4.8
10°-20°	164.4	13.5
20°-30°	276.0	22.6
30°-40°	331.9	27.2
40°-50°	263.1	21.6
50°-60°	84.2	6.9
60°-70°	23.5	1.9
70°-80°	14.0	1.1
80°-90°	4.4	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°	498.9	40.9
0°-40°	830.8	68.1
0°-60°	1178.0	96.6
0°-90°	1220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1220.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	642	642	642	642	642	
5°	940	904	642	384	300	88
15°	1244	980	592	64	62	350
25°	1510	1207	397	55	58	690
35°	1462	1121	73	51	60	916
45°	1264	808	32	50	61	908
55°	61	17	28	47	58	191
65°	10	12	19	35	46	9
75°	4	7	10	19	26	5
85°	1	3	4	6	7	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°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	856.9	862.4	862.4	855.5	858.3	847.2	838.9	826.4	823.7	808.4	789.1
5°	940.0	937.2	937.2	931.6	934.4	930.3	926.1	923.3	915.0	904.0	892.9
7.5°	941.3	944.1	945.5	944.1	949.6	945.5	945.5	945.5	940.0	934.4	923.3
10°	963.5	959.3	955.2	945.5	940.0	935.8	935.8	937.2	940.0	937.2	930.3
12.5°	1122.7	1107.5	1100.5	1077.0	1059.0	1028.6	993.9	967.6	944.1	935.8	930.3
15°	1244.5	1241.7	1227.9	1205.7	1183.6	1147.6	1107.5	1067.3	1024.4	980.1	948.3
17.5°	1316.5	1311.0	1297.1	1273.6	1247.3	1214.1	1182.2	1151.8	1110.2	1060.4	1009.2
20°	1382.9	1370.5	1352.5	1324.8	1298.5	1266.7	1232.0	1203.0	1168.4	1129.6	1070.1
22.5°	1442.5	1431.4	1402.3	1364.9	1338.6	1308.2	1277.7	1250.0	1218.2	1173.9	1119.9
25°	1510.3	1485.4	1438.3	1389.9	1358.0	1333.1	1311.0	1288.8	1255.6	1207.1	1143.5
27.5°	1543.5	1508.9	1457.7	1409.2	1378.8	1352.5	1328.9	1306.8	1269.4	1209.9	1136.5
30°	1520.0	1500.6	1464.6	1427.2	1402.3	1377.4	1349.7	1316.5	1257.0	1187.7	1119.9
32.5°	1492.3	1482.6	1466.0	1443.8	1428.6	1403.7	1364.9	1311.0	1227.9	1160.1	1086.7
35°	1461.8	1457.7	1452.2	1442.5	1432.8	1409.2	1360.8	1281.9	1198.8	1121.3	1050.7
37.5°	1430.0	1425.9	1430.0	1428.6	1420.3	1389.9	1316.5	1243.1	1157.3	1078.4	941.3
40°	1391.2	1388.5	1395.4	1402.3	1392.6	1352.5	1273.6	1185.0	1108.8	953.8	906.7
42.5°	1345.6	1344.2	1356.6	1362.2	1348.3	1288.8	1196.1	1131.0	970.4	920.6	809.8
45°	1263.9	1266.7	1272.2	1279.1	1270.8	1205.7	1121.3	1002.2	931.6	808.4	461.0
47.5°	989.8	992.6	1020.2	1078.4	1118.5	1096.4	1024.4	935.8	833.4	462.4	145.4
50°	854.1	851.4	852.7	866.6	898.4	928.9	906.7	858.3	497.0	135.7	18.0
52.5°	375.2	416.7	461.0	585.6	665.9	750.3	766.9	537.1	162.0	18.0	18.0
55°	60.9	63.7	80.3	117.7	211.8	319.8	387.6	180.0	16.6	16.6	16.6
57.5°	12.5	12.5	12.5	13.8	20.8	44.3	51.2	15.2	15.2	15.2	16.6
60°	11.1	11.1	11.1	11.1	12.5	12.5	12.5	13.8	13.8	15.2	15.2
62.5°	11.1	11.1	11.1	11.1	11.1	11.1	12.5	12.5	13.8	13.8	15.2
65°	9.7	9.7	9.7	9.7	11.1	11.1	11.1	11.1	12.5	12.5	13.8
67.5°	8.3	8.3	8.3	8.3	9.7	9.7	9.7	11.1	11.1	11.1	12.5
70°	6.9	6.9	6.9	6.9	8.3	8.3	8.3	8.3	9.7	9.7	9.7
72.5°	5.5	5.5	5.5	5.5	6.9	6.9	6.9	6.9	8.3	8.3	8.3
75°	4.2	4.2	5.5	5.5	5.5	5.5	5.5	5.5	6.9	6.9	6.9
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.5	5.5	5.5	5.5
80°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2
82.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	776.6	757.2	730.9	645.1	566.2	494.2	458.2	454.1
5°	874.9	856.9	812.6	642.3	491.4	383.5	318.4	300.4
7.5°	912.3	897.0	858.3	636.8	420.8	275.5	202.1	174.4
10°	922.0	912.3	879.0	627.1	347.5	181.3	95.5	73.4
12.5°	926.1	919.2	887.4	611.9	274.1	94.1	65.1	65.1
15°	933.0	926.1	895.7	592.5	202.1	63.7	62.3	62.3
17.5°	963.5	941.3	906.7	563.4	132.9	60.9	60.9	60.9
20°	1013.3	964.9	912.3	524.7	83.1	59.5	59.5	60.9
22.5°	1054.9	989.8	910.9	466.5	60.9	56.8	58.1	59.5
25°	1072.8	1000.9	898.4	397.3	52.6	55.4	58.1	58.1
27.5°	1070.1	1005.0	887.4	318.4	49.8	54.0	56.8	59.5
30°	1054.9	993.9	862.4	235.3	47.1	52.6	56.8	59.5
32.5°	1028.6	951.0	812.6	152.3	45.7	52.6	56.8	59.5
35°	942.7	881.8	740.6	73.4	44.3	51.2	58.1	59.5
37.5°	892.9	808.4	564.8	36.0	42.9	51.2	58.1	59.5
40°	812.6	603.6	254.7	33.2	42.9	51.2	58.1	60.9
42.5°	510.8	247.8	41.5	31.8	41.5	51.2	58.1	60.9
45°	186.9	33.2	22.1	31.8	41.5	49.8	58.1	60.9
47.5°	19.4	19.4	20.8	30.5	40.1	49.8	58.1	60.9
50°	18.0	19.4	20.8	29.1	38.8	49.8	56.8	60.9
52.5°	18.0	19.4	20.8	29.1	37.4	48.5	56.8	60.9
55°	18.0	19.4	19.4	27.7	36.0	47.1	55.4	58.1
57.5°	16.6	18.0	19.4	26.3	34.6	44.3	54.0	56.8
60°	16.6	18.0	19.4	23.5	33.2	41.5	51.2	52.6
62.5°	15.2	16.6	18.0	22.1	30.5	38.8	47.1	49.8
65°	15.2	15.2	16.6	19.4	27.7	34.6	42.9	45.7
67.5°	12.5	13.8	13.8	16.6	23.5	30.5	38.8	41.5
70°	11.1	11.1	12.5	15.2	20.8	26.3	33.2	36.0
72.5°	9.7	9.7	9.7	12.5	18.0	23.5	29.1	31.8
75°	8.3	8.3	8.3	9.7	15.2	19.4	24.9	26.3
77.5°	6.9	6.9	6.9	8.3	12.5	16.6	19.4	22.1
80°	5.5	5.5	5.5	6.9	9.7	12.5	15.2	16.6
82.5°	4.2	4.2	4.2	5.5	6.9	8.3	11.1	11.1
85°	2.8	2.8	2.8	4.2	4.2	5.5	6.9	6.9
87.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)