

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: P1317703

Luminaire Tested: LDSQA3D17R709827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

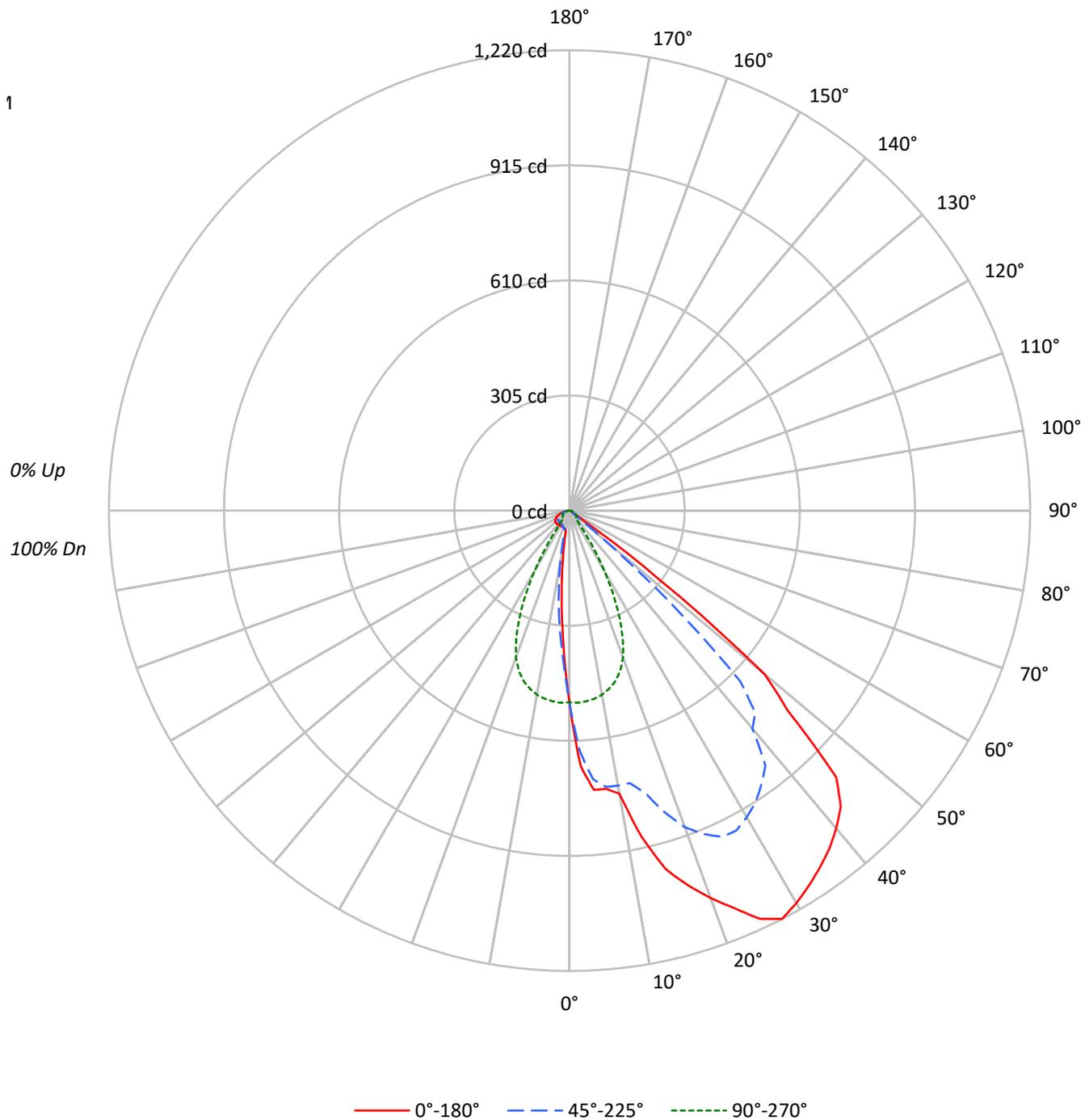
Test Method: LM-79-2019  
Report Number: P1317703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 964.0 lumens  
Efficiency: N/A  
Efficacy: 47.3 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): 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	100				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71				
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57				
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51				
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46				
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38				
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	87403	87403	87403	87403	87403
5°	128398	123489	87737	52383	41042
10°	133136	129498	86653	25060	10143
15°	175338	138074	83479	8968	8772
20°	200265	163592	75986	8614	8816
25°	226778	181247	59649	8323	8722
30°	238838	186635	36989	8273	9347
35°	242854	186277	12194	8515	9882
40°	247145	169447	5913	9105	10814
45°	243243	155586	6138	9596	11715
50°	180827	28722	6162	10556	12887
55°	14443	3933	6576	11170	13782
60°	3031	4133	6407	11298	14329
65°	3138	3994	6235	11125	14711
70°	2769	3877	6043	10474	14301
75°	2196	3660	5124	10181	13841
80°	2182	3273	5455	9720	12992
85°	2174	4347	6521	8695	10868

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 246166 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.2	4.8
10°-20°	129.9	13.5
20°-30°	218.1	22.6
30°-40°	262.3	27.2
40°-50°	207.9	21.6
50°-60°	66.5	6.9
60°-70°	18.6	1.9
70°-80°	11.1	1.2
80°-90°	3.5	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°	394.2	40.9
0°-40°	656.4	68.1
0°-60°	930.8	96.6
0°-90°	964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	508	508	508	508	508	
5°	743	714	508	303	237	70
15°	983	774	468	50	49	277
25°	1193	954	314	44	46	546
35°	1155	886	58	40	47	723
45°	999	639	25	39	48	717
55°	48	13	22	37	46	151
65°	8	10	15	27	36	7
75°	3	6	8	15	21	4
85°	1	2	3	4	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°	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
2.5°	677.1	681.5	681.5	676.0	678.2	669.4	662.9	653.0	650.8	638.8	623.5
5°	742.7	740.5	740.5	736.2	738.3	735.1	731.8	729.6	723.0	714.3	705.5
7.5°	743.8	746.0	747.1	746.0	750.4	747.1	747.1	747.1	742.7	738.3	729.6
10°	761.3	758.0	754.8	747.1	742.7	739.4	739.4	740.5	742.7	740.5	735.1
12.5°	887.1	875.1	869.6	851.0	836.8	812.7	785.4	764.6	746.0	739.4	735.1
15°	983.4	981.2	970.2	952.7	935.2	906.8	875.1	843.4	809.4	774.4	749.3
17.5°	1040.2	1035.9	1024.9	1006.3	985.6	959.3	934.1	910.1	877.3	837.9	797.4
20°	1092.7	1082.9	1068.7	1046.8	1026.0	1000.9	973.5	950.5	923.2	892.6	845.5
22.5°	1139.8	1131.0	1108.1	1078.5	1057.7	1033.7	1009.6	987.7	962.6	927.6	884.9
25°	1193.4	1173.7	1136.5	1098.2	1073.1	1053.4	1035.9	1018.4	992.1	953.8	903.5
27.5°	1219.6	1192.3	1151.8	1113.5	1089.5	1068.7	1050.1	1032.6	1003.1	956.0	898.0
30°	1201.0	1185.7	1157.3	1127.8	1108.1	1088.4	1066.5	1040.2	993.2	938.5	884.9
32.5°	1179.2	1171.5	1158.4	1140.9	1128.8	1109.2	1078.5	1035.9	970.2	916.6	858.7
35°	1155.1	1151.8	1147.4	1139.8	1132.1	1113.5	1075.2	1012.9	947.3	886.0	830.2
37.5°	1129.9	1126.7	1129.9	1128.8	1122.3	1098.2	1040.2	982.3	914.5	852.1	743.8
40°	1099.3	1097.1	1102.6	1108.1	1100.4	1068.7	1006.3	936.3	876.2	753.7	716.5
42.5°	1063.2	1062.1	1072.0	1076.3	1065.4	1018.4	945.1	893.7	766.8	727.4	639.9
45°	998.7	1000.9	1005.2	1010.7	1004.1	952.7	886.0	791.9	736.2	638.8	364.2
47.5°	782.1	784.3	806.2	852.1	883.8	866.3	809.4	739.4	658.5	365.3	114.9
50°	674.9	672.7	673.8	684.7	709.9	734.0	716.5	678.2	392.7	107.2	14.2
52.5°	296.4	329.2	364.2	462.7	526.1	592.9	606.0	424.4	128.0	14.2	14.2
55°	48.1	50.3	63.4	93.0	167.4	252.7	306.3	142.2	13.1	13.1	13.1
57.5°	9.8	9.8	9.8	10.9	16.4	35.0	40.5	12.0	12.0	12.0	13.1
60°	8.8	8.8	8.8	8.8	9.8	9.8	9.8	10.9	10.9	12.0	12.0
62.5°	8.8	8.8	8.8	8.8	8.8	8.8	9.8	9.8	10.9	10.9	12.0
65°	7.7	7.7	7.7	7.7	8.8	8.8	8.8	8.8	9.8	9.8	10.9
67.5°	6.6	6.6	6.6	6.6	7.7	7.7	7.7	8.8	8.8	8.8	9.8
70°	5.5	5.5	5.5	5.5	6.6	6.6	6.6	6.6	7.7	7.7	7.7
72.5°	4.4	4.4	4.4	4.4	5.5	5.5	5.5	5.5	6.6	6.6	6.6
75°	3.3	3.3	4.4	4.4	4.4	4.4	4.4	4.4	5.5	5.5	5.5
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	4.4	4.4	4.4
80°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3	3.3
82.5°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
2.5°	613.6	598.3	577.5	509.7	447.4	390.5	362.1	358.8
5°	691.3	677.1	642.1	507.5	388.3	303.0	251.6	237.4
7.5°	720.8	708.8	678.2	503.2	332.5	217.7	159.7	137.8
10°	728.5	720.8	694.6	495.5	274.6	143.3	75.5	58.0
12.5°	731.8	726.3	701.2	483.5	216.6	74.4	51.4	51.4
15°	737.2	731.8	707.7	468.2	159.7	50.3	49.2	49.2
17.5°	761.3	743.8	716.5	445.2	105.0	48.1	48.1	48.1
20°	800.7	762.4	720.8	414.6	65.6	47.0	47.0	48.1
22.5°	833.5	782.1	719.7	368.6	48.1	44.8	45.9	47.0
25°	847.7	790.8	709.9	313.9	41.6	43.8	45.9	45.9
27.5°	845.5	794.1	701.2	251.6	39.4	42.7	44.8	47.0
30°	833.5	785.4	681.5	186.0	37.2	41.6	44.8	47.0
32.5°	812.7	751.5	642.1	120.3	36.1	41.6	44.8	47.0
35°	744.9	696.8	585.2	58.0	35.0	40.5	45.9	47.0
37.5°	705.5	638.8	446.3	28.4	33.9	40.5	45.9	47.0
40°	642.1	476.9	201.3	26.3	33.9	40.5	45.9	48.1
42.5°	403.6	195.8	32.8	25.2	32.8	40.5	45.9	48.1
45°	147.7	26.3	17.5	25.2	32.8	39.4	45.9	48.1
47.5°	15.3	15.3	16.4	24.1	31.7	39.4	45.9	48.1
50°	14.2	15.3	16.4	23.0	30.6	39.4	44.8	48.1
52.5°	14.2	15.3	16.4	23.0	29.5	38.3	44.8	48.1
55°	14.2	15.3	15.3	21.9	28.4	37.2	43.8	45.9
57.5°	13.1	14.2	15.3	20.8	27.3	35.0	42.7	44.8
60°	13.1	14.2	15.3	18.6	26.3	32.8	40.5	41.6
62.5°	12.0	13.1	14.2	17.5	24.1	30.6	37.2	39.4
65°	12.0	12.0	13.1	15.3	21.9	27.3	33.9	36.1
67.5°	9.8	10.9	10.9	13.1	18.6	24.1	30.6	32.8
70°	8.8	8.8	9.8	12.0	16.4	20.8	26.3	28.4
72.5°	7.7	7.7	7.7	9.8	14.2	18.6	23.0	25.2
75°	6.6	6.6	6.6	7.7	12.0	15.3	19.7	20.8
77.5°	5.5	5.5	5.5	6.6	9.8	13.1	15.3	17.5
80°	4.4	4.4	4.4	5.5	7.7	9.8	12.0	13.1
82.5°	3.3	3.3	3.3	4.4	5.5	6.6	8.8	8.8
85°	2.2	2.2	2.2	3.3	3.3	4.4	5.5	5.5
87.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)