

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: P1314872

Luminaire Tested: LDSQA3D17R709730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

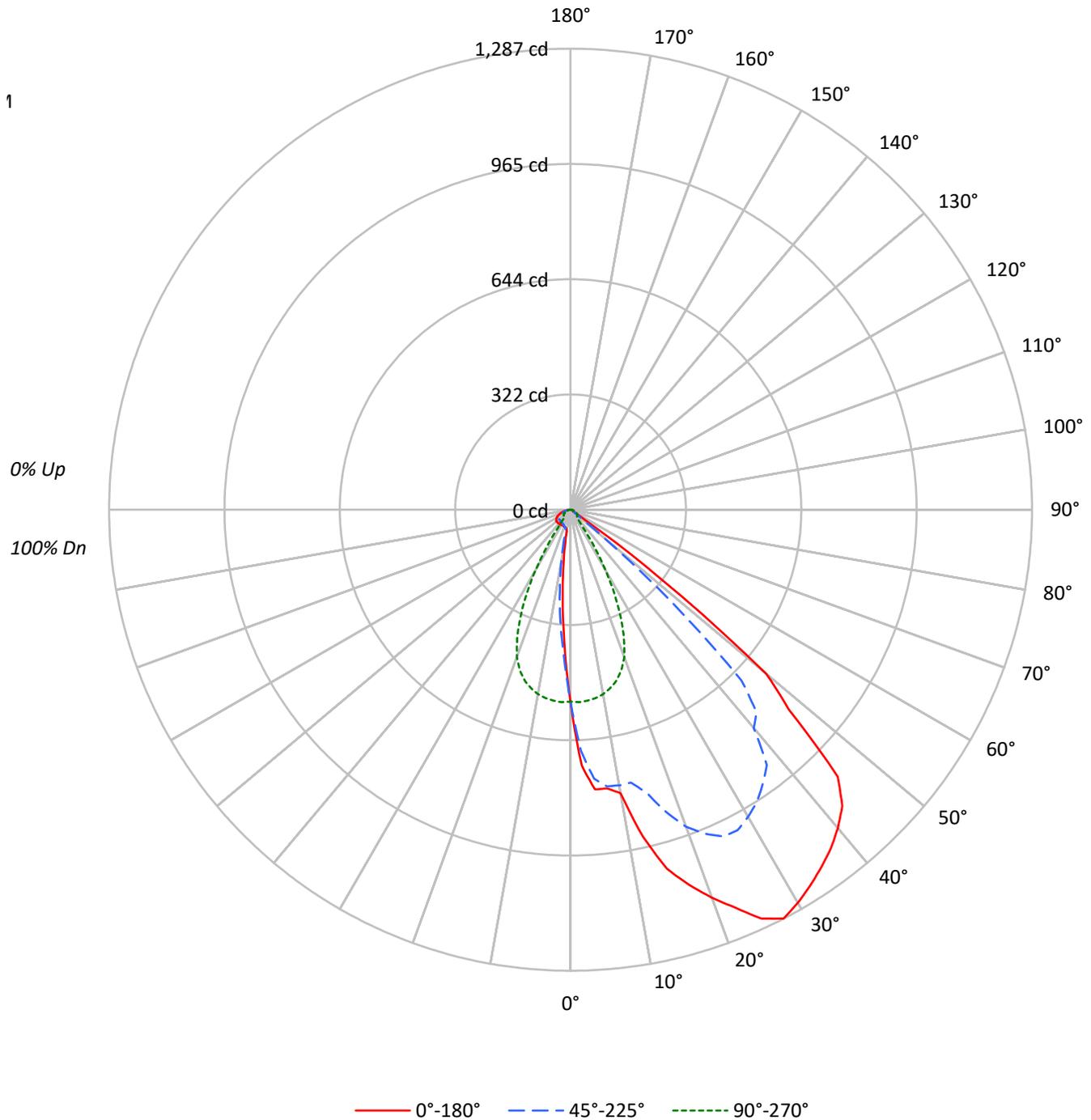
Test Method: LM-79-2019  
Report Number: P1314872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709730DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1017.0 lumens  
Efficiency: N/A  
Efficacy: 48.0 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	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°	92208	92208	92208	92208	92208
5°	135469	130265	92560	55270	43289
10°	140463	136616	91427	26442	10703
15°	184966	145669	88061	9468	9254
20°	211280	172572	80165	9090	9310
25°	239244	191224	62937	8779	9216
30°	251983	196897	39017	8730	9864
35°	256205	196516	12867	8977	10428
40°	260747	178755	6228	9600	11421
45°	256614	164135	6454	10108	12373
50°	190767	30303	6484	11119	13611
55°	15253	4144	6936	11770	14563
60°	3169	4374	6751	11918	15121
65°	3301	4238	6602	11736	15526
70°	2921	4079	6395	11028	15106
75°	2329	3859	5390	10780	14573
80°	2281	3471	5752	10315	13687
85°	2371	4545	6916	9090	11461

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 259708 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.7	4.8
10°-20°	137.0	13.5
20°-30°	230.1	22.6
30°-40°	276.7	27.2
40°-50°	219.3	21.6
50°-60°	70.2	6.9
60°-70°	19.6	1.9
70°-80°	11.7	1.1
80°-90°	3.7	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°	415.9	40.9
0°-40°	692.5	68.1
0°-60°	982.0	96.6
0°-90°	1017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1017.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	535	535	535	535	535	
5°	784	754	535	320	250	74
15°	1037	817	494	53	52	292
25°	1259	1006	331	46	48	576
35°	1219	935	61	43	50	763
45°	1054	674	26	42	51	757
55°	51	14	23	39	48	159
65°	8	10	16	29	38	8
75°	4	6	8	16	22	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°	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4
2.5°	714.3	718.9	718.9	713.2	715.5	706.2	699.3	688.9	686.6	673.9	657.8
5°	783.6	781.2	781.2	776.6	778.9	775.5	772.0	769.7	762.8	753.5	744.3
7.5°	784.7	787.0	788.2	787.0	791.6	788.2	788.2	788.2	783.6	778.9	769.7
10°	803.2	799.7	796.2	788.2	783.6	780.1	780.1	781.2	783.6	781.2	775.5
12.5°	935.9	923.2	917.4	897.8	882.8	857.4	828.6	806.6	787.0	780.1	775.5
15°	1037.4	1035.1	1023.6	1005.1	986.7	956.6	923.2	889.7	853.9	817.0	790.5
17.5°	1097.4	1092.8	1081.3	1061.7	1039.7	1012.0	985.5	960.1	925.5	883.9	841.3
20°	1152.8	1142.4	1127.4	1104.4	1082.4	1055.9	1027.0	1002.8	974.0	941.6	892.0
22.5°	1202.4	1193.2	1169.0	1137.8	1115.9	1090.5	1065.1	1042.0	1015.5	978.6	933.6
25°	1259.0	1238.2	1199.0	1158.6	1132.1	1111.3	1092.8	1074.4	1046.7	1006.3	953.2
27.5°	1286.7	1257.8	1215.1	1174.8	1149.4	1127.4	1107.8	1089.4	1058.2	1008.6	947.4
30°	1267.1	1250.9	1220.9	1189.8	1169.0	1148.2	1125.1	1097.4	1047.8	990.1	933.6
32.5°	1244.0	1235.9	1222.1	1203.6	1190.9	1170.1	1137.8	1092.8	1023.6	967.0	905.9
35°	1218.6	1215.1	1210.5	1202.4	1194.4	1174.8	1134.4	1068.6	999.3	934.7	875.9
37.5°	1192.1	1188.6	1192.1	1190.9	1184.0	1158.6	1097.4	1036.3	964.7	899.0	784.7
40°	1159.8	1157.4	1163.2	1169.0	1160.9	1127.4	1061.7	987.8	924.3	795.1	755.9
42.5°	1121.7	1120.5	1130.9	1135.5	1124.0	1074.4	997.0	942.8	808.9	767.4	675.1
45°	1053.6	1055.9	1060.5	1066.3	1059.4	1005.1	934.7	835.5	776.6	673.9	384.3
47.5°	825.1	827.4	850.5	899.0	932.4	914.0	853.9	780.1	694.7	385.4	121.2
50°	712.0	709.7	710.9	722.4	748.9	774.3	755.9	715.5	414.3	113.1	15.0
52.5°	312.7	347.3	384.3	488.1	555.1	625.5	639.3	447.7	135.0	15.0	15.0
55°	50.8	53.1	66.9	98.1	176.6	266.6	323.1	150.0	13.8	13.8	13.8
57.5°	10.4	10.4	10.4	11.5	17.3	36.9	42.7	12.7	12.7	12.7	13.8
60°	9.2	9.2	9.2	9.2	10.4	10.4	10.4	11.5	11.5	12.7	12.7
62.5°	9.2	9.2	9.2	9.2	9.2	9.2	10.4	10.4	11.5	11.5	12.7
65°	8.1	8.1	8.1	8.1	9.2	9.2	9.2	9.2	10.4	10.4	11.5
67.5°	6.9	6.9	6.9	6.9	8.1	8.1	8.1	9.2	9.2	9.2	10.4
70°	5.8	5.8	5.8	5.8	6.9	6.9	6.9	6.9	8.1	8.1	8.1
72.5°	4.6	4.6	4.6	4.6	5.8	5.8	5.8	5.8	6.9	6.9	6.9
75°	3.5	3.5	4.6	4.6	4.6	4.6	4.6	4.6	5.8	5.8	5.8
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	4.6	4.6
80°	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5	3.5	3.5
82.5°	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3
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°	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4
2.5°	647.4	631.2	609.3	537.8	472.0	412.0	382.0	378.5
5°	729.3	714.3	677.4	535.4	409.7	319.7	265.4	250.4
7.5°	760.5	747.8	715.5	530.8	350.8	229.6	168.5	145.4
10°	768.6	760.5	732.8	522.8	289.6	151.2	79.6	61.2
12.5°	772.0	766.2	739.7	510.1	228.5	78.5	54.2	54.2
15°	777.8	772.0	746.6	493.9	168.5	53.1	51.9	51.9
17.5°	803.2	784.7	755.9	469.7	110.8	50.8	50.8	50.8
20°	844.7	804.3	760.5	437.4	69.2	49.6	49.6	50.8
22.5°	879.3	825.1	759.3	388.9	50.8	47.3	48.5	49.6
25°	894.3	834.3	748.9	331.2	43.9	46.2	48.5	48.5
27.5°	892.0	837.8	739.7	265.4	41.5	45.0	47.3	49.6
30°	879.3	828.6	718.9	196.2	39.2	43.9	47.3	49.6
32.5°	857.4	792.8	677.4	126.9	38.1	43.9	47.3	49.6
35°	785.9	735.1	617.4	61.2	36.9	42.7	48.5	49.6
37.5°	744.3	673.9	470.8	30.0	35.8	42.7	48.5	49.6
40°	677.4	503.1	212.3	27.7	35.8	42.7	48.5	50.8
42.5°	425.8	206.6	34.6	26.5	34.6	42.7	48.5	50.8
45°	155.8	27.7	18.5	26.5	34.6	41.5	48.5	50.8
47.5°	16.2	16.2	17.3	25.4	33.5	41.5	48.5	50.8
50°	15.0	16.2	17.3	24.2	32.3	41.5	47.3	50.8
52.5°	15.0	16.2	17.3	24.2	31.2	40.4	47.3	50.8
55°	15.0	16.2	16.2	23.1	30.0	39.2	46.2	48.5
57.5°	13.8	15.0	16.2	21.9	28.8	36.9	45.0	47.3
60°	13.8	15.0	16.2	19.6	27.7	34.6	42.7	43.9
62.5°	12.7	13.8	15.0	18.5	25.4	32.3	39.2	41.5
65°	12.7	12.7	13.8	16.2	23.1	28.8	35.8	38.1
67.5°	10.4	11.5	11.5	13.8	19.6	25.4	32.3	34.6
70°	9.2	9.2	10.4	12.7	17.3	21.9	27.7	30.0
72.5°	8.1	8.1	8.1	10.4	15.0	19.6	24.2	26.5
75°	6.9	6.9	6.9	8.1	12.7	16.2	20.8	21.9
77.5°	5.8	5.8	5.8	6.9	10.4	13.8	16.2	18.5
80°	4.6	4.6	4.6	5.8	8.1	10.4	12.7	13.8
82.5°	3.5	3.5	3.5	4.6	5.8	6.9	9.2	9.2
85°	2.3	2.3	2.3	3.5	3.5	4.6	5.8	5.8
87.5°	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)