

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: P1309321

Luminaire Tested: LDSQA3D13R709030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

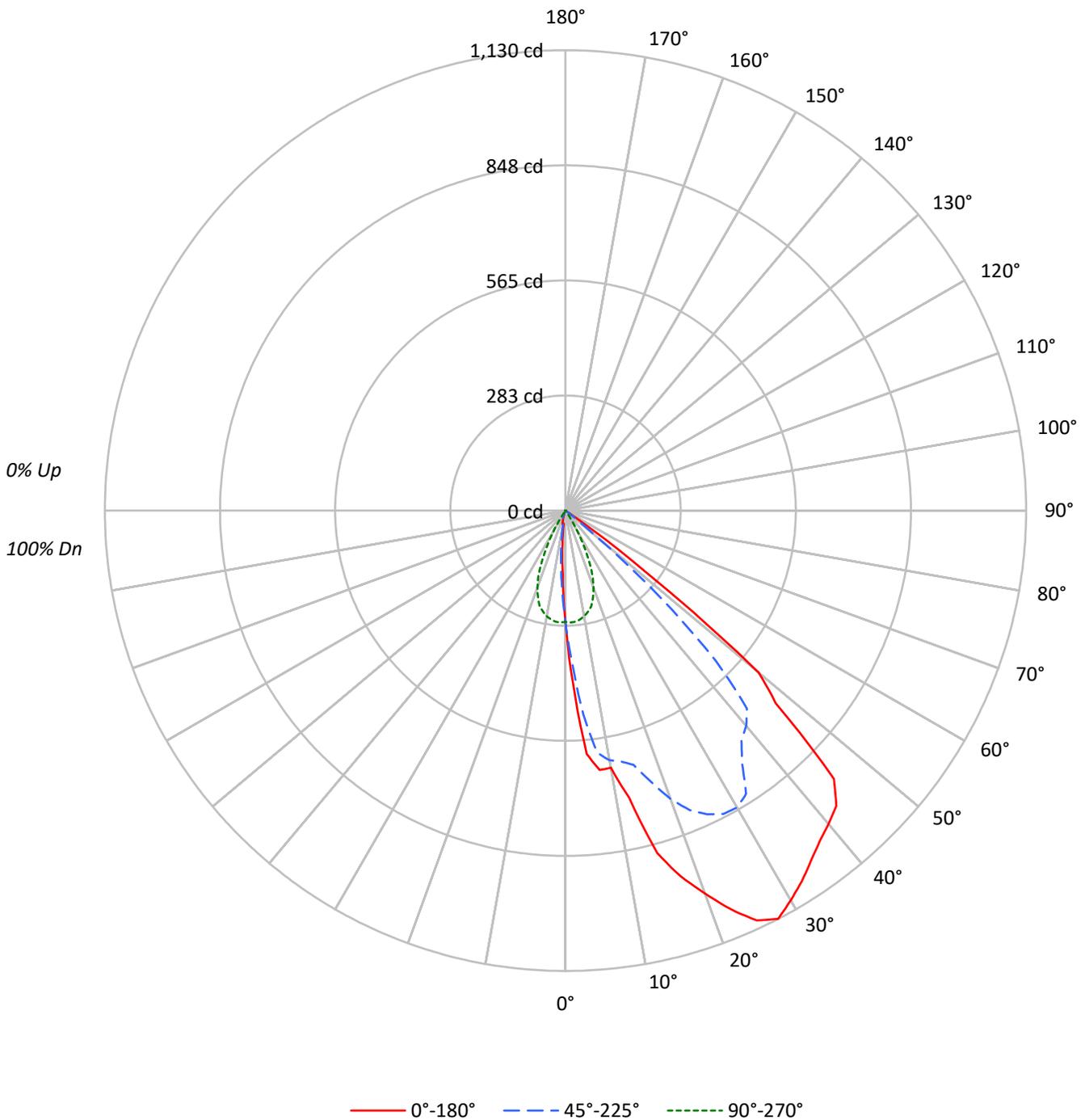
Test Method: LM-79-2019  
Report Number: P1309321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709030DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 734.9 lumens  
Efficiency: N/A  
Efficacy: 50.3 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	58	53	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	46982	46982	46982	46982	46982
5°	103642	86959	47335	21524	14159
10°	112098	108827	46063	5981	6173
15°	155155	115216	43451	6098	4440
20°	183257	138006	36875	3611	1338
25°	210892	156297	26015	589	0
30°	219667	167286	11972	0	0
35°	220673	158525	652	0	0
40°	225720	155059	0	0	0
45°	226851	127065	0	0	0
50°	165635	26391	0	0	0
55°	9338	0	0	0	0
60°	0	344	344	0	0
65°	0	0	408	0	0
70°	0	504	504	0	0
75°	0	665	665	0	0
80°	0	992	992	992	0
85°	0	1976	1976	1976	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 231138 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	4.1
10°-20°	99.7	13.6
20°-30°	179.1	24.4
30°-40°	217.8	29.6
40°-50°	168.1	22.9
50°-60°	39.1	5.3
60°-70°	0.2	0.0
70°-80°	0.5	0.1
80°-90°	0.5	0.1
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°	308.6	42.0
0°-40°	526.4	71.6
0°-60°	733.6	99.8
0°-90°	734.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	273	273	273	273	273	
5°	600	503	274	124	82	57
15°	870	646	244	34	25	243
25°	1110	822	137	3	0	505
35°	1050	754	3	0	0	659
45°	931	522	0	0	0	658
55°	31	0	0	0	0	128
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
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°	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8
2.5°	425.3	425.3	427.3	426.3	417.0	412.8	399.3	392.1	390.0	373.4	367.2
5°	599.5	600.5	595.4	594.3	583.9	576.7	565.3	547.6	530.0	503.0	479.2
7.5°	642.0	641.0	640.0	640.0	637.9	633.7	628.5	623.4	616.1	599.5	580.8
10°	641.0	641.0	640.0	640.0	638.9	640.0	638.9	635.8	632.7	622.3	611.9
12.5°	721.9	715.7	707.4	694.9	674.2	658.6	641.0	635.8	633.7	630.6	624.4
15°	870.2	865.0	847.4	825.6	804.9	769.6	741.6	703.2	673.1	646.2	632.7
17.5°	941.8	944.9	925.2	911.7	892.0	864.0	830.8	791.4	748.9	698.0	657.6
20°	999.9	1003.0	986.4	972.9	950.1	921.0	892.0	849.5	809.0	753.0	700.1
22.5°	1059.0	1061.1	1045.5	1025.8	999.9	969.8	932.4	888.9	845.3	795.5	739.5
25°	1109.8	1107.7	1081.8	1053.8	1028.9	996.8	960.4	917.9	876.4	822.5	769.6
27.5°	1129.5	1128.5	1099.4	1072.5	1043.4	999.9	967.7	930.4	886.8	839.1	785.2
30°	1104.6	1121.2	1102.5	1082.8	1047.6	1004.0	972.9	928.3	887.8	841.2	780.0
32.5°	1078.7	1099.4	1093.2	1083.9	1042.4	1008.2	967.7	926.2	878.5	824.6	731.2
35°	1049.6	1071.4	1072.5	1062.1	1024.8	990.5	953.2	909.6	855.7	754.0	685.6
37.5°	1023.7	1044.5	1050.7	1028.9	999.9	954.2	920.0	874.4	776.9	708.4	673.1
40°	1004.0	1019.6	1028.9	994.7	965.6	921.0	881.6	801.8	713.6	689.7	640.0
42.5°	983.3	997.8	1001.9	964.6	920.0	877.5	820.4	719.8	693.9	658.6	524.8
45°	931.4	949.0	938.7	902.4	869.2	824.6	739.5	696.0	668.0	521.7	322.6
47.5°	699.1	718.8	746.8	757.2	768.6	736.4	689.7	674.2	548.7	316.3	100.6
50°	618.2	615.1	615.1	620.2	629.6	640.0	653.4	568.4	329.8	98.5	0.0
52.5°	252.0	264.5	325.7	380.7	443.9	507.2	526.9	348.5	128.6	2.1	0.0
55°	31.1	31.1	43.6	74.7	123.4	199.1	224.0	112.0	9.3	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	8.3	22.8	15.6	4.1	1.0	1.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
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°	272.8	272.8	272.8	272.8	272.8	272.8	272.8	272.8
2.5°	356.8	344.4	326.7	274.9	230.3	190.8	168.0	156.6
5°	456.4	426.3	385.8	273.8	186.7	124.5	93.3	81.9
7.5°	551.8	517.6	449.1	269.7	143.1	72.6	40.5	32.2
10°	593.3	568.4	507.2	263.4	103.7	34.2	34.2	35.3
12.5°	609.9	591.2	541.4	254.1	68.5	33.2	35.3	33.2
15°	621.3	603.7	558.0	243.7	39.4	34.2	28.0	24.9
17.5°	627.5	606.8	563.2	224.0	25.9	29.0	17.6	14.5
20°	647.2	614.0	567.3	201.2	24.9	19.7	9.3	7.3
22.5°	680.4	628.5	568.4	173.2	19.7	11.4	3.1	0.0
25°	710.5	648.3	571.5	136.9	6.2	3.1	0.0	0.0
27.5°	725.0	654.5	570.5	96.5	0.0	0.0	0.0	0.0
30°	707.4	638.9	561.1	60.2	0.0	0.0	0.0	0.0
32.5°	665.9	627.5	532.1	25.9	0.0	0.0	0.0	0.0
35°	652.4	602.6	465.7	3.1	0.0	0.0	0.0	0.0
37.5°	622.3	531.0	342.3	0.0	0.0	0.0	0.0	0.0
40°	535.2	383.8	162.8	0.0	0.0	0.0	0.0	0.0
42.5°	353.7	163.9	9.3	0.0	0.0	0.0	0.0	0.0
45°	124.5	10.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0
67.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
72.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
75°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
77.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)