

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: P1316478

Luminaire Tested: LDSQA3D09R559740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R559740DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

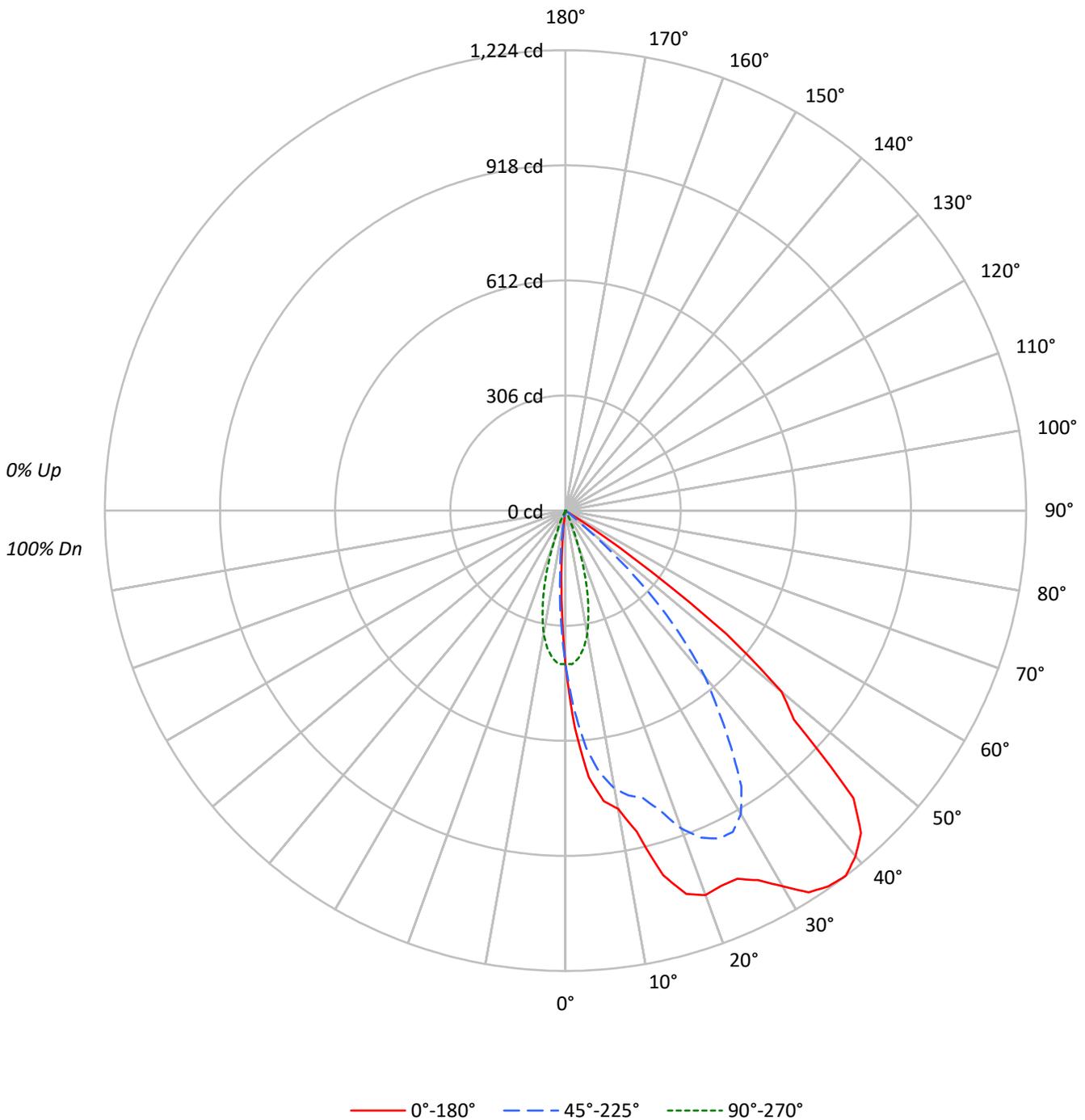
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 754.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	88	86	84	82
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	70164	70164	70164	70164	70164
5°	122987	109641	68115	28301	16285
10°	140760	131230	58235	3095	1119
15°	178886	140873	39921	624	374
20°	199349	164801	17539	0	0
25°	205210	182844	4979	0	0
30°	229252	185303	696	0	0
35°	256226	160901	0	0	0
40°	269538	129519	0	0	0
45°	263531	81812	0	0	0
50°	200680	16719	0	0	0
55°	65727	0	0	0	0
60°	0	0	0	0	0
65°	0	285	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	1389	694	0
85°	0	1383	1383	1383	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 263531 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.2	4.9
10°-20°	109.1	14.5
20°-30°	177.4	23.5
30°-40°	210.8	28.0
40°-50°	172.4	22.9
50°-60°	45.7	6.1
60°-70°	0.3	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°	323.7	42.9
0°-40°	534.6	70.9
0°-60°	752.7	99.8
0°-90°	754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	407	407	407	407	407	
5°	711	634	394	164	94	70
15°	1003	790	224	4	2	281
25°	1080	962	26	0	0	509
35°	1219	765	0	0	0	758
45°	1082	336	0	0	0	777
55°	219	0	0	0	0	246
65°	0	1	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°	67.5°
0°	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4	407.4
2.5°	578.2	573.9	574.7	572.5	574.7	565.4	555.5	546.3	539.2	529.3	469.1
5°	711.4	704.3	702.2	699.4	696.5	685.2	676.0	664.6	651.2	634.2	523.6
7.5°	778.7	773.1	770.2	771.6	765.3	761.0	749.0	736.2	722.0	703.6	564.7
10°	804.9	799.3	798.6	797.9	797.1	794.3	788.6	777.3	764.5	750.4	588.1
12.5°	873.7	860.9	852.4	842.5	830.4	814.9	802.1	792.2	787.2	775.9	598.7
15°	1003.3	991.3	982.1	969.3	946.7	913.3	882.9	843.9	809.9	790.1	594.5
17.5°	1068.5	1062.9	1055.1	1046.6	1031.0	1006.9	975.7	934.6	891.4	835.4	573.9
20°	1087.7	1084.8	1079.2	1075.6	1065.0	1048.0	1026.7	994.8	954.4	899.2	542.1
22.5°	1079.9	1082.0	1084.8	1094.0	1095.5	1083.4	1063.6	1033.1	992.0	941.0	493.2
25°	1079.9	1078.4	1078.4	1097.6	1109.6	1104.0	1089.8	1062.1	1020.3	962.2	432.9
27.5°	1107.5	1099.0	1081.3	1101.1	1121.0	1118.8	1106.1	1073.5	1026.7	962.9	359.2
30°	1152.8	1134.4	1105.4	1123.8	1142.2	1134.4	1113.9	1072.1	1012.5	931.8	269.3
32.5°	1203.2	1194.7	1179.8	1191.8	1189.0	1157.8	1121.0	1062.9	983.5	869.4	181.4
35°	1218.7	1220.2	1210.2	1208.1	1191.8	1159.9	1121.0	1036.6	922.6	765.3	107.7
37.5°	1223.7	1224.4	1208.8	1189.0	1164.9	1127.3	1080.6	982.8	809.9	664.6	57.4
40°	1198.9	1198.2	1172.7	1148.6	1121.7	1084.8	1016.8	869.4	702.9	576.1	20.5
42.5°	1162.1	1152.8	1128.8	1099.0	1066.4	1020.3	914.1	734.1	610.8	461.3	1.4
45°	1082.0	1073.5	1054.4	1022.5	986.3	921.1	753.2	630.6	496.7	335.9	0.0
47.5°	822.7	818.4	838.2	842.5	841.8	767.4	628.5	514.4	364.9	195.6	0.0
50°	749.0	743.3	723.5	697.9	652.6	590.2	503.8	381.2	214.0	62.4	0.0
52.5°	537.8	556.2	560.5	541.3	498.8	437.2	347.2	219.7	74.4	0.0	0.0
55°	218.9	207.6	216.1	226.7	235.2	216.1	160.1	77.9	0.7	0.0	0.0
57.5°	0.0	0.7	4.3	9.9	16.3	20.5	22.0	1.4	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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):**

	90°	112.5°	135°	157.5°	180°
0°	407.4	407.4	407.4	407.4	407.4
2.5°	408.8	345.8	284.8	251.5	235.2
5°	394.0	264.3	163.7	113.4	94.2
7.5°	369.2	181.4	65.2	26.9	19.1
10°	333.0	104.2	17.7	7.1	6.4
12.5°	281.3	47.5	6.4	5.0	5.0
15°	223.9	16.3	3.5	2.8	2.1
17.5°	157.3	4.3	1.4	0.0	0.0
20°	95.7	0.7	0.0	0.0	0.0
22.5°	53.1	0.0	0.0	0.0	0.0
25°	26.2	0.0	0.0	0.0	0.0
27.5°	11.3	0.0	0.0	0.0	0.0
30°	3.5	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0
65°	0.7	0.7	0.0	0.0	0.0
67.5°	0.7	0.7	0.0	0.0	0.0
70°	0.7	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	0.0	0.0	0.0
75°	0.7	0.7	0.0	0.0	0.0
77.5°	1.4	0.7	0.7	0.0	0.0
80°	1.4	0.7	0.7	0.0	0.0
82.5°	1.4	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.7	0.0	0.0
87.5°	1.4	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)