

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: P1310078

Luminaire Tested: LDSQA3D05R459035DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

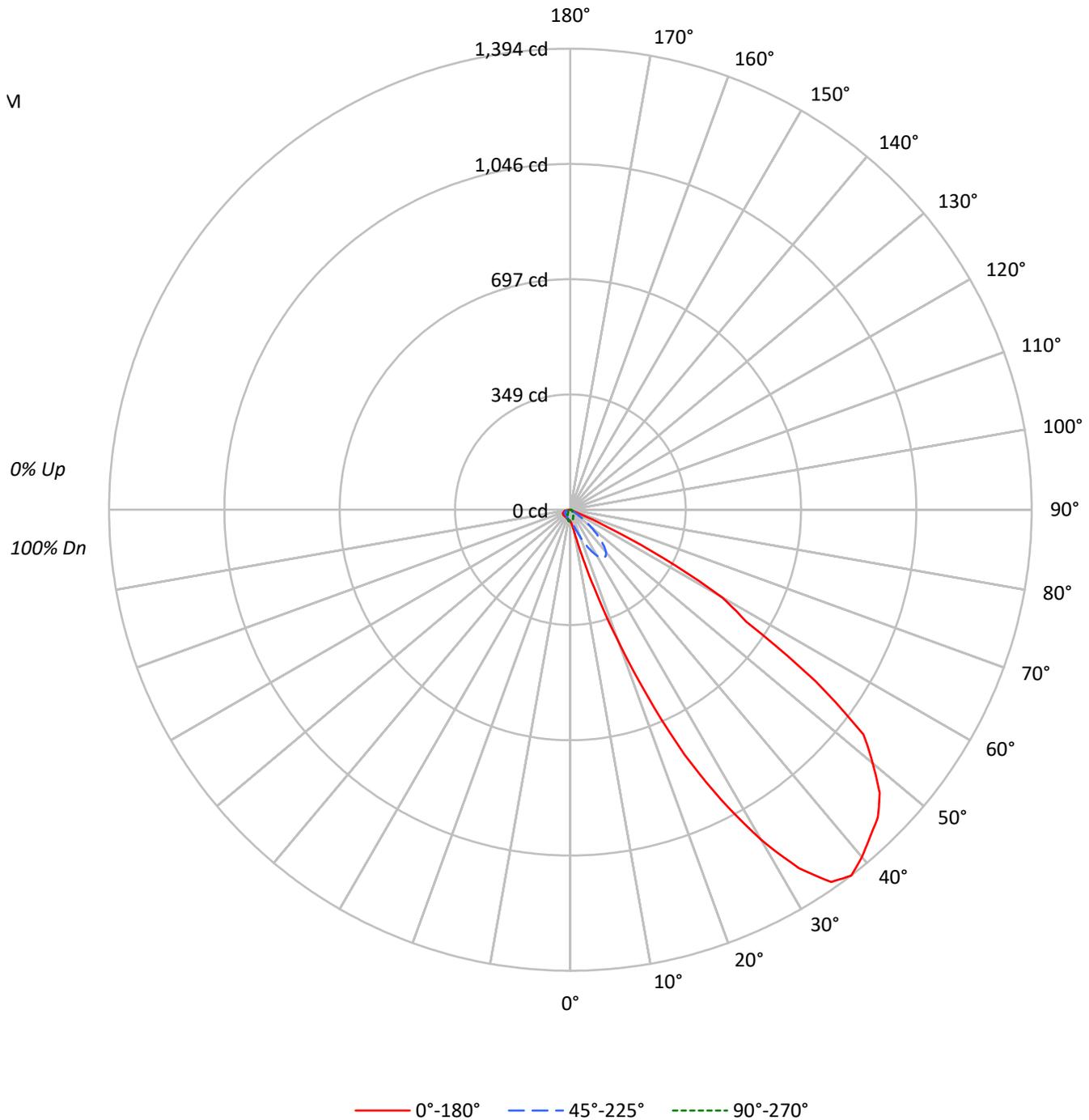
Test Method: LM-79-2019  
Report Number: P1310078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459035DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 623.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	38	38	38	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	33	33	33	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	28	28	28	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	24	24	24	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	21	21	21	19

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

	0°	45°	90°	135°	180°
0°	6200	6200	6200	6200	6200
5°	7382	6846	6137	5688	5688
10°	11787	8009	5754	5404	5404
15°	29366	10734	5224	5046	5224
20°	77361	16037	4527	4820	5095
25°	155347	23772	3915	4504	4998
30°	228994	31838	3182	4395	5111
35°	288856	37340	2712	4331	5298
40°	308184	37725	2428	4519	5665
45°	320208	31468	2265	4896	6138
50°	319695	21917	2197	5251	6886
55°	271736	9728	2312	5885	7567
60°	182625	1963	2308	6544	8680
65°	48453	856	2323	7131	9862
70°	1309	1057	2316	7755	11128
75°	998	998	2396	8251	12643
80°	992	1488	2579	8728	14282
85°	988	1976	4150	9090	14227

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 328467 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.6	0.6
10°-20°	17.6	2.8
20°-30°	72.5	11.6
30°-40°	152.7	24.5
40°-50°	188.4	30.2
50°-60°	141.2	22.7
60°-70°	36.4	5.8
70°-80°	7.5	1.2
80°-90°	3.1	0.5
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°	93.6	15.0
0°-40°	246.4	39.5
0°-60°	576.1	92.5
0°-90°	623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	623.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	43	40	36	33	33	5
15°	165	60	29	28	29	60
25°	818	125	21	24	26	381
35°	1374	178	13	21	25	837
45°	1315	129	9	20	25	1006
55°	905	32	8	20	25	781
65°	119	2	6	18	24	171
75°	2	2	4	12	19	2
85°	0	1	2	5	7	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
2.5°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	37.6	37.1	36.0	35.0
5°	42.7	42.2	42.2	42.2	41.7	41.2	41.2	39.6	37.6	35.5	34.0
7.5°	50.4	50.4	49.9	48.9	48.4	47.4	46.3	42.2	37.6	34.5	32.4
10°	67.4	66.4	64.9	63.8	61.3	57.7	55.1	45.8	37.1	32.9	31.4
12.5°	100.9	103.0	97.8	92.7	85.5	78.8	70.5	52.0	37.1	31.4	29.9
15°	164.7	168.3	158.5	148.3	130.8	114.3	98.8	60.2	36.0	29.3	27.8
17.5°	269.2	273.9	257.4	233.2	205.9	173.0	144.7	71.6	35.0	27.3	26.3
20°	422.1	421.6	389.7	359.3	306.8	258.4	205.4	87.5	33.5	24.7	24.7
22.5°	610.0	612.1	572.9	518.4	443.7	366.0	281.6	106.0	31.4	22.6	23.2
25°	817.5	800.0	753.6	687.2	592.0	484.4	373.2	125.1	29.3	20.6	21.6
27.5°	990.4	973.4	920.4	841.6	739.2	611.5	466.4	144.1	26.8	18.5	20.1
30°	1151.5	1129.9	1066.1	977.0	855.0	717.1	553.9	160.1	23.7	16.0	18.5
32.5°	1284.4	1264.8	1192.2	1088.7	955.9	807.7	628.0	172.4	20.6	14.4	17.5
35°	1373.9	1353.8	1286.9	1173.2	1028.5	873.6	688.2	177.6	18.0	12.9	17.0
37.5°	1394.5	1383.7	1335.8	1229.3	1078.4	915.8	726.9	176.1	14.9	11.8	16.0
40°	1370.8	1373.4	1350.8	1262.2	1105.2	933.8	742.8	167.8	12.4	10.8	15.4
42.5°	1340.5	1347.2	1345.6	1275.6	1116.5	934.8	736.1	151.3	9.8	9.8	14.9
45°	1314.7	1321.4	1330.7	1269.9	1108.8	921.4	715.0	129.2	7.2	9.3	14.9
47.5°	1267.9	1275.1	1288.5	1224.6	1069.7	886.9	676.9	105.0	5.1	8.8	14.4
50°	1193.2	1196.8	1193.2	1121.7	994.5	831.4	615.1	81.8	3.6	8.2	14.4
52.5°	1116.5	1109.3	1079.5	988.9	875.1	743.3	537.4	58.2	2.6	7.7	13.9
55°	905.0	893.6	871.5	815.9	751.0	635.2	434.5	32.4	2.6	7.7	13.4
57.5°	630.6	636.8	644.5	633.2	603.3	500.4	330.0	14.4	2.6	7.2	13.4
60°	530.2	525.1	525.6	518.4	469.0	365.0	227.0	5.7	2.6	6.7	12.9
62.5°	316.6	320.2	326.9	328.4	279.5	203.8	118.9	2.6	2.6	6.2	12.4
65°	118.9	124.6	109.1	94.7	75.2	55.1	27.8	2.1	3.1	5.7	11.3
67.5°	3.6	4.1	5.1	4.6	4.6	4.1	3.1	2.1	3.1	5.1	10.8
70°	2.6	2.6	2.6	2.6	2.6	2.1	2.1	2.1	2.6	4.6	9.8
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	4.1	8.8
75°	1.5	2.1	1.5	1.5	1.5	1.5	1.5	1.5	2.6	3.6	7.2
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	3.1	6.2
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.1	2.6	5.1
82.5°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	2.1	2.1	4.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.1	2.6
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	1.5	1.5	1.5
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):**

	135°	157.5°	180°
0°	36.0	36.0	36.0
2.5°	34.0	34.0	34.0
5°	32.9	32.9	32.9
7.5°	31.9	31.9	31.9
10°	30.9	30.9	30.9
12.5°	29.9	29.9	30.4
15°	28.3	29.3	29.3
17.5°	27.3	28.3	28.8
20°	26.3	27.3	27.8
22.5°	24.7	26.3	27.3
25°	23.7	25.7	26.3
27.5°	22.6	25.2	26.3
30°	22.1	24.7	25.7
32.5°	21.1	24.2	25.2
35°	20.6	24.2	25.2
37.5°	20.6	23.7	25.2
40°	20.1	23.7	25.2
42.5°	20.1	23.7	25.2
45°	20.1	23.7	25.2
47.5°	19.6	23.7	25.7
50°	19.6	24.2	25.7
52.5°	19.6	24.2	25.7
55°	19.6	24.2	25.2
57.5°	19.0	23.7	25.2
60°	19.0	23.7	25.2
62.5°	18.0	23.2	24.7
65°	17.5	22.6	24.2
67.5°	16.5	22.1	23.2
70°	15.4	20.6	22.1
72.5°	13.9	19.6	21.1
75°	12.4	18.0	19.0
77.5°	10.8	16.0	17.0
80°	8.8	13.4	14.4
82.5°	6.7	10.3	10.8
85°	4.6	6.7	7.2
87.5°	2.1	3.1	3.6
90°	0.0	0.0	0.0

(END OF REPORT)