

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: P1320479

Luminaire Tested: LDSQA3D20R709840D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709840D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

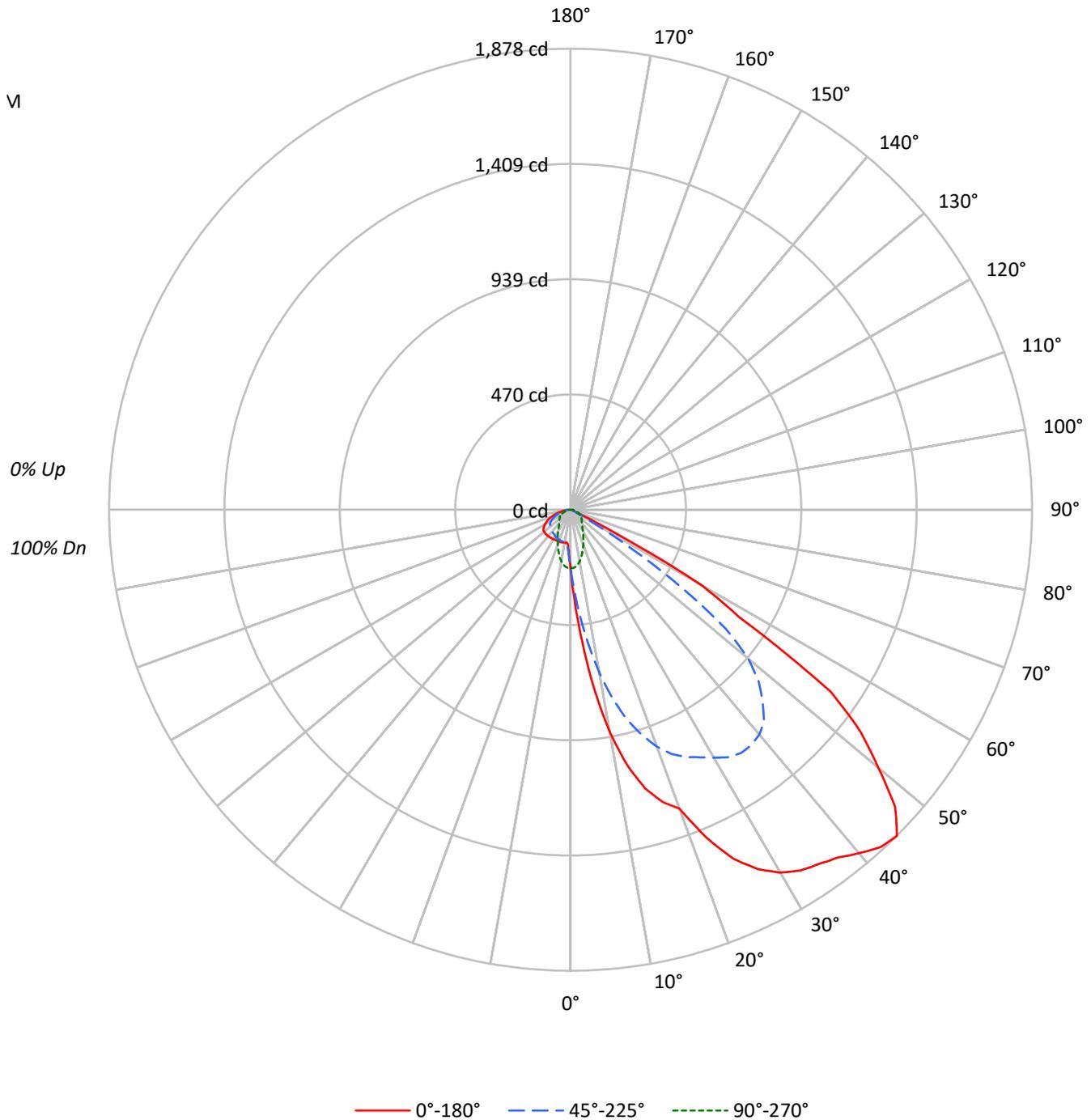
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1623.0 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°	135°	180°
0°	40713	40713	40713	40713	40713
5°	92664	74183	40316	25483	23788
10°	160557	117799	37372	23224	23784
15°	209607	157348	32629	23678	24534
20°	237415	188151	27895	24046	25530
25°	298171	211082	23392	24304	26148
30°	339404	231857	19966	24799	27702
35°	370410	254312	17366	25187	29287
40°	410635	268661	16007	26214	31677
45°	457502	268963	15783	27595	34318
50°	438201	252927	15620	29070	37323
55°	387997	163852	16034	30627	40355
60°	212488	35133	16189	31241	41816
65°	15160	8599	15852	31012	42218
70°	7352	8157	14653	29357	40787
75°	6455	8650	14040	28014	37729
80°	6447	8034	12893	25687	35308
85°	6323	9683	12844	22329	32012

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 457502 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.8	1.9
10°-20°	131.9	8.1
20°-30°	253.1	15.6
30°-40°	357.9	22.0
40°-50°	404.8	24.9
50°-60°	320.6	19.8
60°-70°	86.5	5.3
70°-80°	28.7	1.8
80°-90°	8.8	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°	415.8	25.6
0°-40°	773.7	47.7
0°-60°	1499.1	92.4
0°-90°	1623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	236	236	236	236	236	
5°	536	429	233	147	138	63
15°	1176	882	183	133	138	331
25°	1569	1111	123	128	138	719
35°	1762	1210	83	120	139	1110
45°	1878	1104	65	113	141	1405
55°	1292	546	53	102	134	1049
65°	37	21	39	76	104	134
75°	10	13	21	42	57	10
85°	3	5	6	11	16	4
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°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4
2.5°	367.6	367.6	366.0	359.5	356.2	348.1	341.7	323.9	280.1	238.0	204.0
5°	536.0	544.1	532.7	531.1	521.4	506.8	497.1	429.1	323.9	233.2	174.9
7.5°	735.1	738.4	735.1	719.0	704.4	680.1	657.4	550.6	367.6	225.1	153.8
10°	918.1	913.3	903.6	892.2	871.2	845.3	806.4	673.6	409.7	213.7	140.9
12.5°	1067.1	1065.5	1054.1	1042.8	1016.9	982.9	944.0	785.3	445.3	199.2	134.4
15°	1175.6	1175.6	1164.3	1151.3	1127.0	1099.5	1055.8	882.5	474.4	183.0	127.9
17.5°	1248.5	1245.2	1237.1	1227.4	1208.0	1180.4	1146.4	960.2	493.9	166.8	126.3
20°	1295.4	1293.8	1287.3	1272.7	1256.6	1235.5	1204.7	1026.6	502.0	152.2	124.7
22.5°	1446.0	1433.1	1408.8	1378.0	1339.1	1288.9	1246.8	1076.8	498.7	136.0	121.4
25°	1569.1	1564.2	1538.3	1501.1	1449.2	1384.5	1314.8	1110.8	482.5	123.1	118.2
27.5°	1650.0	1641.9	1617.7	1577.2	1522.1	1459.0	1394.2	1136.7	459.9	111.7	113.3
30°	1706.7	1701.9	1677.6	1632.2	1575.5	1505.9	1439.5	1165.9	429.1	100.4	108.5
32.5°	1742.3	1737.5	1713.2	1672.7	1617.7	1544.8	1468.7	1195.0	391.9	90.7	103.6
35°	1761.8	1756.9	1729.4	1693.8	1641.9	1570.7	1489.7	1209.6	346.5	82.6	98.8
37.5°	1786.1	1776.3	1739.1	1695.4	1643.6	1577.2	1496.2	1208.0	301.2	76.1	95.5
40°	1826.5	1800.6	1747.2	1688.9	1635.5	1569.1	1491.3	1195.0	251.0	71.2	92.3
42.5°	1865.4	1828.2	1748.8	1679.2	1619.3	1554.5	1473.5	1165.9	195.9	68.0	90.7
45°	1878.4	1823.3	1726.1	1656.5	1599.8	1533.4	1449.2	1104.3	132.8	64.8	87.4
47.5°	1792.5	1752.0	1671.1	1619.3	1565.8	1501.1	1413.6	1039.6	76.1	61.5	84.2
50°	1635.5	1609.6	1564.2	1531.8	1502.7	1457.3	1371.5	944.0	45.3	58.3	81.0
52.5°	1489.7	1481.6	1449.2	1423.3	1407.1	1386.1	1308.4	796.7	37.2	56.7	77.7
55°	1292.2	1266.3	1258.2	1248.5	1282.5	1280.8	1175.6	545.7	35.6	53.4	74.5
57.5°	811.3	822.6	864.7	942.4	1034.7	1088.1	1084.9	291.5	34.0	50.2	69.6
60°	616.9	615.3	628.3	660.7	728.7	804.8	876.0	102.0	32.4	47.0	66.4
62.5°	184.6	189.5	228.3	335.2	401.6	495.5	451.8	24.3	30.8	42.1	59.9
65°	37.2	38.9	38.9	43.7	53.4	81.0	98.8	21.1	29.1	38.9	55.1
67.5°	16.2	16.2	16.2	17.8	17.8	21.1	17.8	19.4	25.9	34.0	48.6
70°	14.6	14.6	14.6	14.6	14.6	14.6	16.2	16.2	22.7	29.1	42.1
72.5°	11.3	11.3	11.3	13.0	13.0	13.0	13.0	14.6	19.4	24.3	35.6
75°	9.7	9.7	9.7	9.7	11.3	11.3	11.3	13.0	16.2	21.1	29.1
77.5°	8.1	8.1	8.1	8.1	8.1	9.7	9.7	9.7	13.0	16.2	24.3
80°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.1	9.7	13.0	17.8
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.1	9.7	13.0
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	6.5	8.1
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.9
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°	236.4	236.4	236.4
2.5°	179.7	170.0	165.2
5°	147.4	139.3	137.6
7.5°	136.0	134.4	134.4
10°	132.8	134.4	136.0
12.5°	132.8	136.0	137.6
15°	132.8	136.0	137.6
17.5°	132.8	136.0	137.6
20°	131.2	136.0	139.3
22.5°	129.5	136.0	137.6
25°	127.9	136.0	137.6
27.5°	126.3	134.4	137.6
30°	124.7	134.4	139.3
32.5°	121.4	134.4	139.3
35°	119.8	134.4	139.3
37.5°	118.2	134.4	140.9
40°	116.6	134.4	140.9
42.5°	115.0	134.4	140.9
45°	113.3	132.8	140.9
47.5°	110.1	132.8	140.9
50°	108.5	131.2	139.3
52.5°	105.3	129.5	139.3
55°	102.0	126.3	134.4
57.5°	97.2	121.4	127.9
60°	90.7	115.0	121.4
62.5°	82.6	106.9	111.7
65°	76.1	97.2	103.6
67.5°	66.4	85.8	92.3
70°	58.3	74.5	81.0
72.5°	50.2	63.2	69.6
75°	42.1	51.8	56.7
77.5°	32.4	42.1	45.3
80°	25.9	32.4	35.6
82.5°	17.8	22.7	24.3
85°	11.3	14.6	16.2
87.5°	4.9	6.5	6.5
90°	0.0	0.0	0.0

(END OF REPORT)