

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: P1319451

Luminaire Tested: LDSQA3D17R659835DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R659835DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

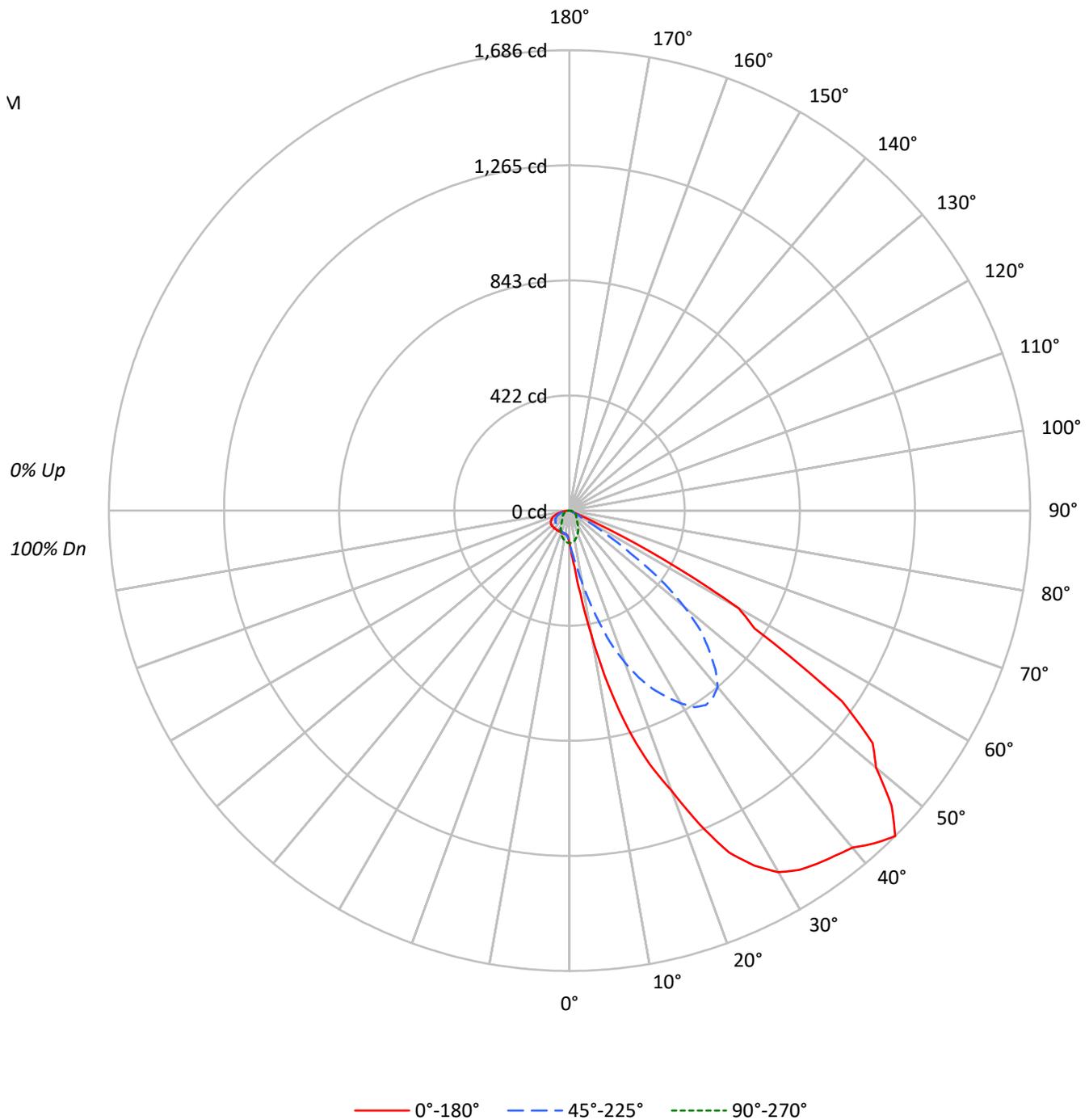
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1223.0 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	87	
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	74	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	62	
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	53	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	45	
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	39	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	34	
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	29	
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	26	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	23	

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

	0°	45°	90°	135°	180°
0°	20477	20477	20477	20477	20477
5°	35821	29251	20141	16320	15680
10°	81057	47182	19307	15005	15232
15°	147363	75866	17937	15084	15530
20°	199789	108334	16183	15065	15725
25°	262617	136781	14214	14689	16076
30°	304085	162175	12190	14637	16824
35°	332061	182787	10323	14948	17787
40°	362254	189681	9105	15715	19020
45°	410666	175923	8671	16733	20605
50°	392304	146853	8547	17737	22667
55°	365628	82482	8828	19157	25042
60°	246244	17739	8887	20288	27039
65°	37980	4483	8476	20987	29463
70°	4330	4330	8006	21602	31472
75°	4059	4059	7320	21227	31807
80°	3670	4860	7339	19439	31638
85°	2371	4940	7311	19365	29048

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 410666 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.4	1.2
10°-20°	77.8	6.4
20°-30°	182.7	14.9
30°-40°	276.0	22.6
40°-50°	317.3	25.9
50°-60°	251.9	20.6
60°-70°	75.5	6.2
70°-80°	20.5	1.7
80°-90°	6.9	0.6
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°	274.9	22.5
0°-40°	550.9	45.0
0°-60°	1120.1	91.6
0°-90°	1223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	119	119	119	119	119	
5°	207	169	116	94	91	28
15°	826	426	101	85	87	238
25°	1382	720	75	77	85	631
35°	1579	869	49	71	85	991
45°	1686	722	36	69	85	1252
55°	1218	275	29	64	83	1003
65°	93	11	21	52	72	209
75°	6	6	11	32	48	6
85°	1	2	4	10	15	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	118.9	118.9	118.9	118.9	118.9	118.9	118.9	118.9	118.9	118.9	118.9
2.5°	150.8	152.1	150.8	150.8	149.6	148.4	139.8	130.0	118.9	110.4	104.2
5°	207.2	208.5	204.8	204.8	202.3	198.7	169.2	141.0	116.5	103.0	94.4
7.5°	306.6	311.5	305.3	298.0	284.5	282.0	210.9	152.1	114.0	95.6	88.3
10°	463.5	459.8	453.7	439.0	415.7	404.7	269.8	163.1	110.4	90.7	85.8
12.5°	653.6	643.8	636.4	609.5	577.6	559.2	343.4	172.9	105.5	85.8	84.6
15°	826.5	819.1	802.0	776.2	737.0	722.3	425.5	179.0	100.6	82.2	84.6
17.5°	972.4	965.1	955.3	929.5	889.0	867.0	517.5	182.7	94.4	79.7	83.4
20°	1090.1	1085.2	1071.8	1050.9	1010.4	989.6	591.1	182.7	88.3	77.3	82.2
22.5°	1242.2	1231.2	1214.0	1183.3	1133.1	1101.2	661.0	179.0	82.2	74.8	79.7
25°	1382.0	1374.6	1352.6	1315.8	1261.8	1229.9	719.8	171.7	74.8	71.1	77.3
27.5°	1465.4	1460.5	1439.6	1401.6	1341.5	1317.0	768.9	160.6	67.4	67.4	76.0
30°	1529.1	1519.3	1498.5	1461.7	1400.4	1371.0	815.5	147.2	61.3	63.8	73.6
32.5°	1561.0	1557.3	1539.0	1507.1	1447.0	1413.9	853.5	130.0	54.0	61.3	72.3
35°	1579.4	1575.7	1561.0	1530.4	1474.0	1442.1	869.4	114.0	49.1	58.9	71.1
37.5°	1594.1	1590.5	1572.1	1541.4	1485.0	1451.9	862.1	96.9	44.1	56.4	69.9
40°	1611.3	1597.8	1569.6	1539.0	1487.5	1455.6	843.7	80.9	40.5	55.2	69.9
42.5°	1653.0	1606.4	1562.3	1534.1	1485.0	1448.2	790.9	63.8	36.8	52.7	68.7
45°	1686.1	1603.9	1547.5	1525.5	1475.2	1433.5	722.3	46.6	35.6	51.5	68.7
47.5°	1599.0	1548.8	1523.0	1510.8	1456.8	1411.4	651.1	31.9	34.3	50.3	67.4
50°	1464.2	1458.0	1448.2	1449.4	1400.4	1363.6	548.1	22.1	31.9	49.1	66.2
52.5°	1399.2	1391.8	1374.6	1362.4	1313.3	1281.4	434.1	17.2	30.7	47.8	65.0
55°	1217.7	1222.6	1204.2	1211.5	1196.8	1180.9	274.7	15.9	29.4	45.4	63.8
57.5°	802.0	826.5	869.4	920.9	967.5	999.4	148.4	15.9	27.0	44.1	61.3
60°	714.9	708.8	707.6	717.4	738.2	755.4	51.5	14.7	25.8	40.5	58.9
62.5°	391.2	388.7	425.5	488.1	524.8	528.5	14.7	14.7	23.3	38.0	55.2
65°	93.2	96.9	107.9	134.9	159.4	175.4	11.0	13.5	20.8	35.6	51.5
67.5°	14.7	15.9	15.9	19.6	22.1	22.1	9.8	12.3	18.4	31.9	47.8
70°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	11.0	15.9	28.2	42.9
72.5°	7.4	7.4	7.4	7.4	7.4	7.4	8.6	9.8	13.5	24.5	36.8
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.6	11.0	19.6	31.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	6.1	7.4	9.8	15.9	25.8
80°	3.7	3.7	3.7	3.7	3.7	3.7	4.9	6.1	7.4	12.3	19.6
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	4.9	6.1	9.8	14.7
85°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	3.7	6.1	9.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	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):**

	157.5°	180°
0°	118.9	118.9
2.5°	100.6	99.3
5°	90.7	90.7
7.5°	87.1	87.1
10°	85.8	87.1
12.5°	85.8	87.1
15°	85.8	87.1
17.5°	85.8	87.1
20°	84.6	85.8
22.5°	83.4	84.6
25°	82.2	84.6
27.5°	80.9	84.6
30°	80.9	84.6
32.5°	80.9	84.6
35°	79.7	84.6
37.5°	79.7	84.6
40°	79.7	84.6
42.5°	79.7	84.6
45°	79.7	84.6
47.5°	79.7	84.6
50°	79.7	84.6
52.5°	78.5	84.6
55°	78.5	83.4
57.5°	76.0	80.9
60°	73.6	78.5
62.5°	71.1	76.0
65°	67.4	72.3
67.5°	63.8	67.4
70°	57.6	62.5
72.5°	51.5	55.2
75°	44.1	47.8
77.5°	36.8	40.5
80°	29.4	31.9
82.5°	20.8	23.3
85°	13.5	14.7
87.5°	6.1	6.1
90°	0.0	0.0

(END OF REPORT)