

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: P1318722

Luminaire Tested: LDSQA3D20R659830D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318722
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: LDSQA3D20R659830D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

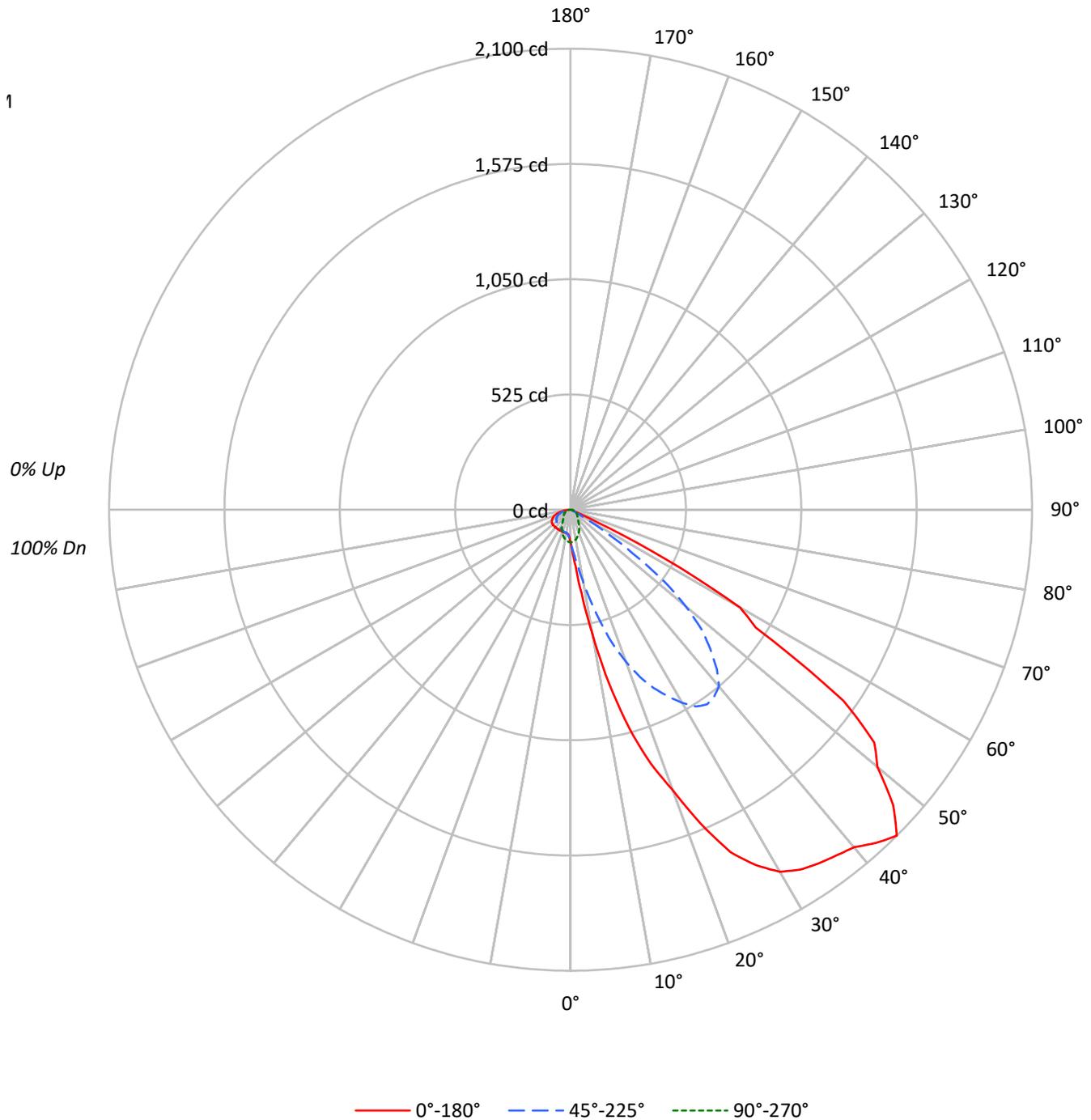
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1523.0 lumens
Efficiency: N/A
Efficacy: 55.6 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): 27.4
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1318722
CATALOG NUMBER: LDSQA3D20R659830D010 3LSQCA45R 1MW

Luminous Intensity Polar Plot





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CATALOG NUMBER: LDSQA3D20R659830D010 3LSQCA45R 1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25506	25506	25506	25506	25506
5°	44620	36426	25085	20331	19535
10°	100940	58759	24028	18695	18957
15°	183504	94480	22323	18793	19328
20°	248815	134891	20142	18749	19592
25°	327036	170340	17710	18281	20029
30°	378680	201948	15193	18216	20960
35°	413531	227632	12846	18628	22160
40°	451125	236197	11331	19559	23696
45°	511402	219057	10790	20824	25671
50°	488518	182890	10637	22104	28240
55°	455316	102719	10990	23841	31167
60°	306660	22079	11057	25248	33652
65°	47312	5583	10595	26122	36717
70°	5388	5388	10021	26889	39226
75°	5057	5057	9116	26417	39659
80°	4562	6050	9124	24200	39374
85°	2964	6126	9090	24108	36161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 511402 cd/sqm



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CATALOG NUMBER: LDSQA3D20R659830D010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	1.2
10°-20°	96.8	6.4
20°-30°	227.5	14.9
30°-40°	343.8	22.6
40°-50°	395.1	25.9
50°-60°	313.7	20.6
60°-70°	94.0	6.2
70°-80°	25.5	1.7
80°-90°	8.6	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°	342.3	22.5
0°-40°	686.1	45.0
0°-60°	1394.9	91.6
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	148	148	148	148	148	
5°	258	211	145	118	113	35
15°	1029	530	125	105	108	296
25°	1721	896	93	96	105	785
35°	1967	1083	61	89	105	1234
45°	2100	899	44	86	105	1560
55°	1516	342	37	79	104	1249
65°	116	14	26	64	90	260
75°	8	8	14	40	60	8
85°	2	3	5	12	18	2
90°	0	0	0	0	0	



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CATALOG NUMBER: LDSQA3D20R659830D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	148.1	148.1	148.1	148.1	148.1	148.1	148.1	148.1	148.1	148.1	148.1
2.5°	187.8	189.4	187.8	187.8	186.3	184.8	174.1	161.9	148.1	137.4	129.8
5°	258.1	259.6	255.0	255.0	252.0	247.4	210.7	175.6	145.1	128.3	117.6
7.5°	381.8	387.9	380.2	371.1	354.3	351.2	262.7	189.4	142.0	119.1	109.9
10°	577.2	572.6	565.0	546.7	517.7	503.9	336.0	203.1	137.4	113.0	106.9
12.5°	813.9	801.7	792.5	758.9	719.2	696.3	427.6	215.3	131.3	106.9	105.4
15°	1029.2	1020.1	998.7	966.6	917.8	899.4	529.9	223.0	125.2	102.3	105.4
17.5°	1211.0	1201.8	1189.6	1157.5	1107.1	1079.6	644.4	227.5	117.6	99.3	103.8
20°	1357.6	1351.4	1334.6	1308.7	1258.3	1232.3	736.0	227.5	109.9	96.2	102.3
22.5°	1546.9	1533.2	1511.8	1473.6	1411.0	1371.3	823.1	223.0	102.3	93.2	99.3
25°	1721.0	1711.8	1684.3	1638.5	1571.3	1531.6	896.4	213.8	93.2	88.6	96.2
27.5°	1824.8	1818.7	1792.8	1745.4	1670.6	1640.1	957.5	200.0	84.0	84.0	94.7
30°	1904.2	1892.0	1866.1	1820.3	1743.9	1707.3	1015.5	183.2	76.4	79.4	91.6
32.5°	1943.9	1939.4	1916.5	1876.8	1801.9	1760.7	1062.8	161.9	67.2	76.4	90.1
35°	1966.9	1962.3	1943.9	1905.8	1835.5	1795.8	1082.7	142.0	61.1	73.3	88.6
37.5°	1985.2	1980.6	1957.7	1919.5	1849.3	1808.0	1073.5	120.6	55.0	70.2	87.0
40°	2006.6	1989.8	1954.6	1916.5	1852.3	1812.6	1050.6	100.8	50.4	68.7	87.0
42.5°	2058.5	2000.4	1945.5	1910.4	1849.3	1803.5	985.0	79.4	45.8	65.7	85.5
45°	2099.7	1997.4	1927.1	1899.7	1837.1	1785.1	899.4	58.0	44.3	64.1	85.5
47.5°	1991.3	1928.7	1896.6	1881.3	1814.1	1757.6	810.9	39.7	42.8	62.6	84.0
50°	1823.3	1815.7	1803.5	1805.0	1743.9	1698.1	682.6	27.5	39.7	61.1	82.5
52.5°	1742.4	1733.2	1711.8	1696.6	1635.5	1595.8	540.6	21.4	38.2	59.6	80.9
55°	1516.4	1522.5	1499.6	1508.7	1490.4	1470.6	342.1	19.9	36.6	56.5	79.4
57.5°	998.7	1029.2	1082.7	1146.8	1204.8	1244.6	184.8	19.9	33.6	55.0	76.4
60°	890.3	882.6	881.1	893.3	919.3	940.7	64.1	18.3	32.1	50.4	73.3
62.5°	487.1	484.1	529.9	607.8	653.6	658.2	18.3	18.3	29.0	47.3	68.7
65°	116.1	120.6	134.4	168.0	198.5	218.4	13.7	16.8	26.0	44.3	64.1
67.5°	18.3	19.9	19.9	24.4	27.5	27.5	12.2	15.3	22.9	39.7	59.6
70°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	13.7	19.9	35.1	53.4
72.5°	9.2	9.2	9.2	9.2	9.2	9.2	10.7	12.2	16.8	30.5	45.8
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.7	13.7	24.4	39.7
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	7.6	9.2	12.2	19.9	32.1
80°	4.6	4.6	4.6	4.6	4.6	4.6	6.1	7.6	9.2	15.3	24.4
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.6	6.1	7.6	12.2	18.3
85°	1.5	1.5	1.5	1.5	3.1	3.1	3.1	4.6	4.6	7.6	12.2
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1	4.6	6.1
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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CATALOG NUMBER: LDSQA3D20R659830D010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	148.1	148.1
2.5°	125.2	123.7
5°	113.0	113.0
7.5°	108.4	108.4
10°	106.9	108.4
12.5°	106.9	108.4
15°	106.9	108.4
17.5°	106.9	108.4
20°	105.4	106.9
22.5°	103.8	105.4
25°	102.3	105.4
27.5°	100.8	105.4
30°	100.8	105.4
32.5°	100.8	105.4
35°	99.3	105.4
37.5°	99.3	105.4
40°	99.3	105.4
42.5°	99.3	105.4
45°	99.3	105.4
47.5°	99.3	105.4
50°	99.3	105.4
52.5°	97.7	105.4
55°	97.7	103.8
57.5°	94.7	100.8
60°	91.6	97.7
62.5°	88.6	94.7
65°	84.0	90.1
67.5°	79.4	84.0
70°	71.8	77.9
72.5°	64.1	68.7
75°	55.0	59.6
77.5°	45.8	50.4
80°	36.6	39.7
82.5°	26.0	29.0
85°	16.8	18.3
87.5°	7.6	7.6
90°	0.0	0.0

(END OF REPORT)