

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: P1318697

Luminaire Tested: LDSQA3D20R509830D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509830D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

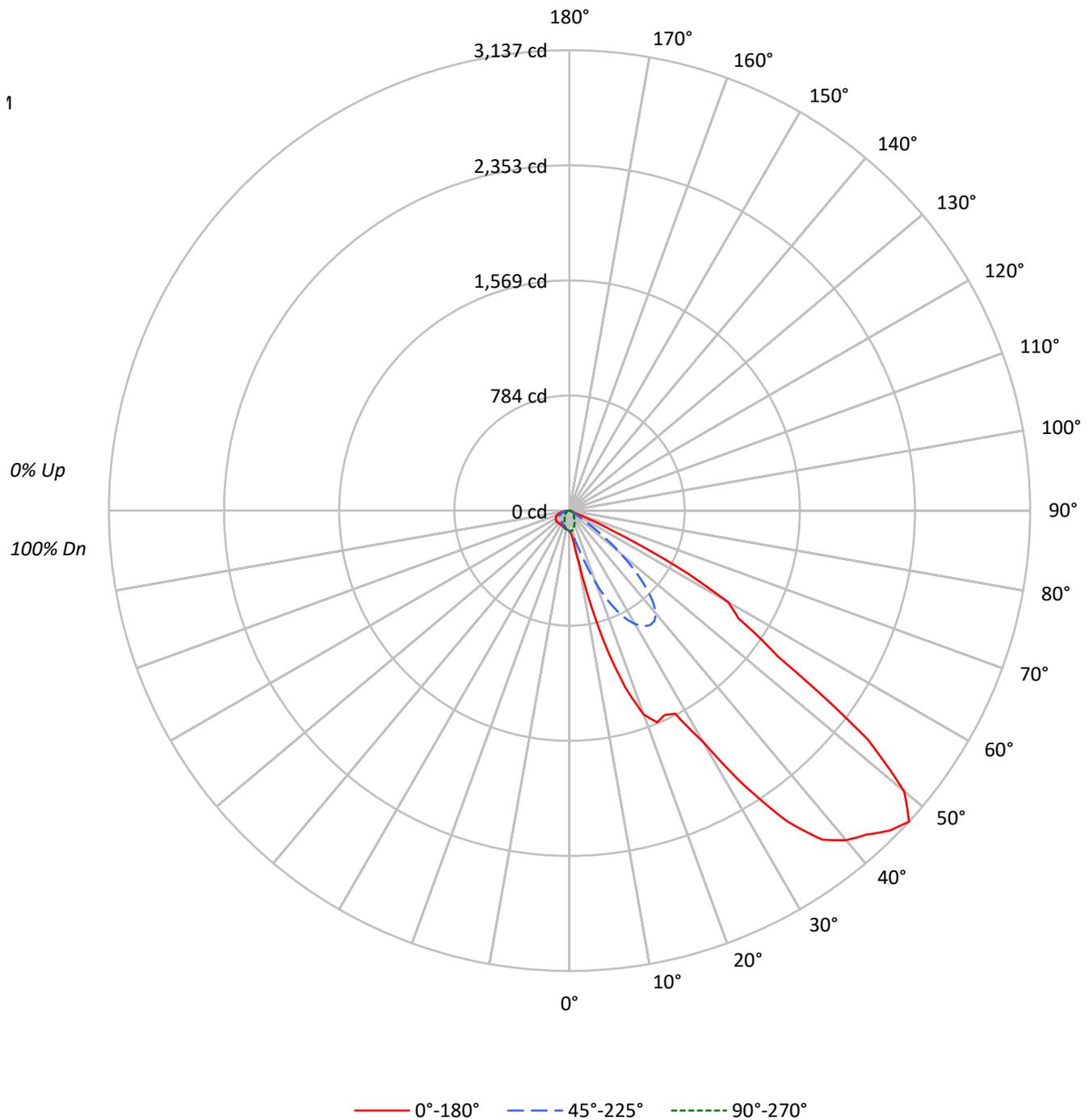
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
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				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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	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	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24215	24215	24215	24215	24215
5°	28785	26952	24030	22976	22716
10°	61995	33402	22979	22175	22437
15°	171630	54755	20700	21253	22073
20°	271358	96055	17924	20435	21572
25°	291805	141114	15392	19744	21777
30°	362194	177149	13364	19449	22492
35°	543546	200448	11563	19595	23779
40°	659197	206116	10297	20256	25068
45°	750992	176776	10059	21579	27547
50°	797068	121989	10235	23337	30705
55°	520713	49093	10089	25222	33960
60°	429454	8404	9989	27383	37372
65°	129508	4360	9332	29259	41077
70°	5388	4633	9215	30011	44614
75°	5057	5057	9183	30476	48775
80°	4562	4562	9124	30349	49986
85°	2964	6126	12054	30233	48215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 799664 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	0.8
10°-20°	83.8	4.7
20°-30°	215.3	12.2
30°-40°	386.8	21.9
40°-50°	516.7	29.2
50°-60°	393.5	22.2
60°-70°	119.4	6.8
70°-80°	28.5	1.6
80°-90°	10.3	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°	313.7	17.7
0°-40°	700.5	39.6
0°-60°	1610.7	91.1
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	141	141	141	141	141	
5°	166	156	139	133	131	21
15°	963	307	116	119	124	283
25°	1536	743	81	104	115	733
35°	2585	953	55	93	113	1587
45°	3083	726	41	89	113	2357
55°	1734	164	34	84	113	1725
65°	318	11	23	72	101	440
75°	8	8	14	46	73	8
85°	2	3	6	15	24	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	140.6	140.6	140.6	140.6	140.6	140.6	140.6	140.6	140.6	140.6	140.6
2.5°	149.7	149.7	149.7	149.7	149.7	149.7	148.2	148.2	148.2	145.2	142.1
5°	166.5	168.1	166.5	166.5	163.5	163.5	160.4	160.4	155.9	146.7	139.0
7.5°	218.5	217.0	215.4	209.3	204.7	194.1	189.5	181.8	168.1	146.7	136.0
10°	354.5	345.3	339.2	325.5	296.4	278.1	253.6	229.2	191.0	146.7	131.4
12.5°	615.8	614.2	595.9	550.1	508.8	452.3	392.7	333.1	235.3	143.6	125.3
15°	962.6	948.9	922.9	869.4	796.1	707.4	600.5	495.1	307.1	139.0	116.1
17.5°	1259.0	1242.2	1222.4	1168.9	1084.8	973.3	845.0	699.8	404.9	132.9	107.0
20°	1480.6	1469.9	1453.1	1410.3	1330.8	1230.0	1086.4	910.7	524.1	125.3	97.8
22.5°	1561.6	1560.0	1563.1	1547.8	1508.1	1428.6	1291.1	1107.8	641.7	116.1	88.6
25°	1535.6	1534.1	1553.9	1573.8	1583.0	1550.9	1445.4	1266.7	742.6	108.5	81.0
27.5°	1560.0	1555.5	1546.3	1549.3	1575.3	1593.7	1544.8	1388.9	829.7	97.8	73.3
30°	1821.3	1795.3	1754.1	1683.8	1631.9	1627.3	1605.9	1485.2	890.8	87.1	67.2
32.5°	2229.3	2197.2	2122.3	1992.5	1868.7	1774.0	1706.7	1566.2	933.6	76.4	59.6
35°	2585.3	2562.4	2475.3	2346.9	2169.7	1992.5	1870.2	1685.3	953.4	67.2	55.0
37.5°	2826.7	2817.5	2732.0	2594.5	2414.2	2204.8	2042.9	1807.6	948.9	56.5	50.4
40°	2932.1	2904.6	2832.8	2716.7	2534.9	2346.9	2175.8	1885.5	916.8	45.8	45.8
42.5°	2994.8	2964.2	2886.3	2776.3	2597.5	2397.4	2191.1	1851.9	840.4	36.7	44.3
45°	3083.4	3051.3	2949.0	2831.3	2651.0	2418.8	2131.5	1732.7	725.8	27.5	41.3
47.5°	3136.9	3115.5	3039.1	2921.4	2703.0	2388.2	1994.0	1621.2	599.0	21.4	39.7
50°	2974.9	2953.5	2897.0	2816.0	2669.3	2285.8	1873.3	1440.9	455.3	16.8	38.2
52.5°	2560.9	2579.2	2589.9	2612.8	2505.8	2056.6	1693.0	1297.2	307.1	13.8	35.1
55°	1734.2	1761.7	1792.3	1884.0	2009.3	1830.5	1503.5	1121.5	163.5	13.8	33.6
57.5°	1362.9	1353.8	1344.6	1338.5	1436.3	1509.6	1321.7	896.9	70.3	13.8	30.6
60°	1246.8	1219.3	1201.0	1205.6	1254.5	1225.4	1046.6	585.2	24.4	13.8	29.0
62.5°	817.5	838.8	880.1	950.4	916.8	786.9	608.1	232.2	12.2	13.8	26.0
65°	317.8	307.1	317.8	337.7	291.8	217.0	136.0	41.3	10.7	12.2	22.9
67.5°	42.8	38.2	29.0	18.3	16.8	15.3	12.2	10.7	10.7	12.2	21.4
70°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	9.2	9.2	10.7	18.3
72.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	10.7	15.3
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.2	13.8
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	10.7
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.1	9.2
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	6.1	7.6
85°	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1	4.6	6.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	4.6	4.6
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):

	112.5°	135°	157.5°	180°
0°	140.6	140.6	140.6	140.6
2.5°	139.0	136.0	136.0	136.0
5°	136.0	132.9	132.9	131.4
7.5°	131.4	129.9	129.9	129.9
10°	128.3	126.8	128.3	128.3
12.5°	122.2	123.8	125.3	125.3
15°	116.1	119.2	122.2	123.8
17.5°	110.0	116.1	119.2	120.7
20°	103.9	111.5	116.1	117.7
22.5°	99.3	107.0	113.1	116.1
25°	93.2	103.9	111.5	114.6
27.5°	87.1	99.3	108.5	113.1
30°	82.5	97.8	108.5	113.1
32.5°	77.9	94.7	107.0	111.5
35°	74.9	93.2	107.0	113.1
37.5°	71.8	91.7	107.0	111.5
40°	70.3	90.1	107.0	111.5
42.5°	68.8	90.1	107.0	113.1
45°	65.7	88.6	107.0	113.1
47.5°	64.2	88.6	107.0	113.1
50°	62.6	87.1	107.0	114.6
52.5°	61.1	85.6	107.0	114.6
55°	58.1	84.0	105.4	113.1
57.5°	56.5	82.5	103.9	110.0
60°	53.5	79.5	100.8	108.5
62.5°	50.4	76.4	97.8	103.9
65°	45.8	71.8	93.2	100.8
67.5°	41.3	65.7	88.6	96.3
70°	36.7	59.6	82.5	88.6
72.5°	32.1	53.5	76.4	81.0
75°	27.5	45.8	67.2	73.3
77.5°	22.9	39.7	56.5	61.1
80°	16.8	30.6	45.8	50.4
82.5°	13.8	22.9	33.6	36.7
85°	9.2	15.3	21.4	24.4
87.5°	4.6	7.6	10.7	12.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)