

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: P1320583

Luminaire Tested: LDSQA3D02R20B2750DE010 3LSQCA30R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

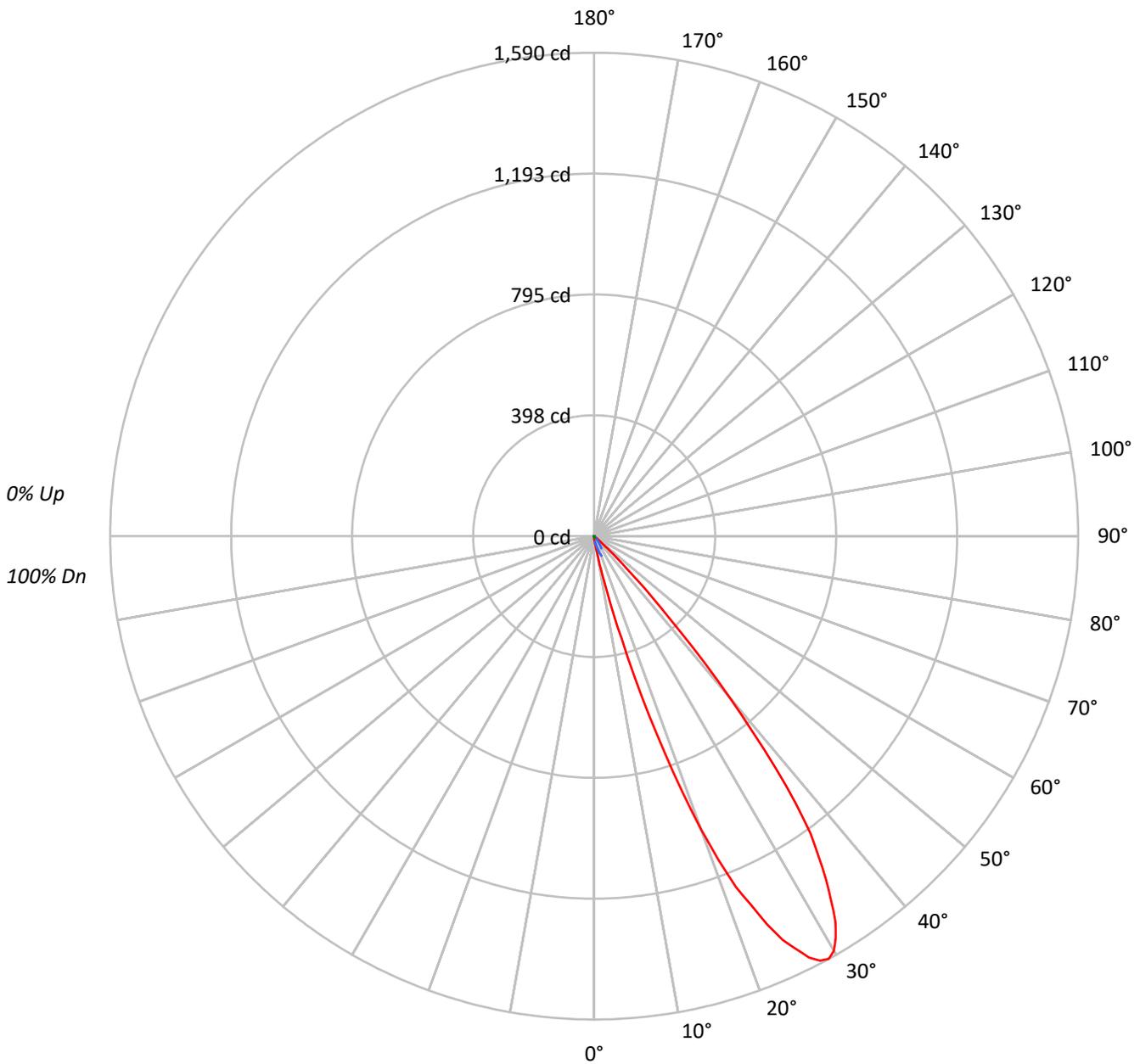
Test Method: LM-79-2019  
Report Number: P1320583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R20B2750DE010 3LSQCA30R 1MW\_4000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 80CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 223.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 2.9  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

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

	0°	45°	90°	135°	180°
0°	1326	1326	1326	1326	1326
5°	3043	2282	1262	778	657
10°	9583	3970	1032	420	315
15°	62119	7328	749	143	36
20°	187473	12536	513	0	0
25°	278427	12656	304	0	0
30°	313094	9625	119	0	0
35°	270144	5740	84	0	0
40°	155553	1956	0	0	0
45°	37947	779	49	0	49
50°	4555	214	54	54	161
55°	601	0	120	120	240
60°	69	0	207	207	344
65°	82	82	326	326	489
70°	101	101	403	403	504
75°	0	133	532	399	532
80°	0	198	595	397	595
85°	0	395	1186	395	395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 38190 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	20.7	9.3
20°-30°	90.1	40.4
30°-40°	90.7	40.7
40°-50°	18.2	8.2
50°-60°	0.9	0.4
60°-70°	0.6	0.3
70°-80°	0.5	0.2
80°-90°	0.3	0.1
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°	111.8	50.1
0°-40°	202.5	90.8
0°-60°	221.6	99.4
0°-90°	223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	7	4	4	3
15°	348	41	4	1	0	136
25°	1465	67	2	0	0	661
35°	1285	27	0	0	0	765
45°	156	3	0	0	0	170
55°	2	0	0	0	1	4
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	11.5	11.5	11.3	11.3	11.1	11.3	10.9	11.1	11.1	10.9	9.9
5°	17.6	18.0	17.8	17.8	17.6	17.8	17.4	17.0	16.6	16.6	13.2
7.5°	28.9	28.7	28.3	28.5	27.9	27.5	27.1	26.9	25.7	25.1	17.2
10°	54.8	56.0	55.0	54.8	51.2	51.0	48.6	45.1	42.1	40.5	22.7
12.5°	150.9	157.4	147.3	142.4	139.6	128.7	124.0	112.1	100.5	91.9	28.7
15°	348.4	364.4	343.9	345.3	328.4	297.2	269.9	246.4	218.7	190.8	41.1
17.5°	682.6	669.7	658.5	639.7	605.1	559.4	500.5	440.8	389.3	335.2	57.3
20°	1022.9	1011.4	986.1	945.0	900.9	833.1	763.1	673.5	586.7	505.4	68.4
21°	1140.0	1136.2	1094.7	1069.4	1001.5	936.7	856.0	760.1	662.4	566.1	70.2
22°	1244.6	1221.6	1199.3	1161.9	1094.3	1023.9	934.1	833.1	727.1	620.1	70.4
23°	1317.1	1306.5	1285.5	1243.2	1176.1	1093.3	998.6	893.0	781.3	658.3	69.8
24°	1397.2	1383.8	1353.1	1303.7	1235.9	1154.2	1046.2	941.4	820.0	690.5	68.2
25°	1465.2	1444.3	1407.9	1354.7	1280.6	1196.3	1087.6	972.5	846.9	712.1	66.6
26°	1509.3	1497.9	1451.2	1393.3	1314.0	1227.0	1116.2	996.4	864.3	722.1	63.9
27°	1555.2	1534.3	1488.4	1421.9	1335.9	1247.1	1132.4	1007.9	870.4	722.5	60.7
28°	1581.5	1558.8	1506.8	1436.8	1350.0	1258.2	1141.7	1011.6	869.1	716.2	56.9
29°	1589.8	1561.3	1510.5	1439.3	1353.5	1259.0	1140.2	1006.3	858.4	700.8	52.4
30°	1574.4	1545.3	1497.1	1427.7	1342.6	1248.9	1127.1	988.9	839.4	678.8	48.4
31°	1540.8	1516.1	1469.6	1400.0	1318.3	1225.2	1097.4	960.4	807.0	649.2	43.7
32°	1496.5	1472.2	1426.5	1363.6	1280.4	1186.6	1056.7	915.9	769.0	605.1	39.0
33°	1430.0	1416.0	1374.9	1314.8	1231.7	1131.3	1002.1	862.7	714.8	556.2	35.0
34°	1362.6	1345.0	1316.3	1250.5	1161.1	1060.9	930.8	789.2	648.6	501.3	31.2
35°	1284.9	1274.4	1229.3	1176.7	1086.8	984.5	855.2	717.8	571.5	440.2	27.3
36°	1209.6	1193.4	1142.1	1086.4	999.2	888.6	760.9	631.8	505.0	383.0	23.3
37°	1100.4	1075.7	1039.1	980.4	878.4	784.2	667.6	547.9	423.0	321.1	18.8
38°	971.9	960.4	909.6	850.5	766.2	676.7	561.4	459.9	349.0	268.1	14.4
39°	820.4	820.2	771.6	728.9	646.4	565.9	461.9	373.3	288.1	215.9	11.1
40°	691.9	668.0	638.1	584.5	521.2	452.8	361.7	292.1	223.6	174.0	8.7
42.5°	362.7	360.7	343.1	302.9	267.5	227.2	180.7	150.5	117.7	95.9	5.5
45°	155.8	156.8	144.7	138.6	124.8	108.0	91.2	76.1	65.1	52.8	3.2
47.5°	39.5	37.8	37.4	38.8	38.8	37.6	33.8	31.8	29.3	26.9	1.8
50°	17.0	16.6	16.2	16.2	15.2	14.6	13.6	12.3	11.3	10.1	0.8
52.5°	6.3	6.5	6.7	6.5	6.5	6.3	6.3	6.1	5.5	4.9	0.4
55°	2.0	2.0	2.0	2.2	2.2	2.4	2.4	2.4	2.4	2.2	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	8.9	7.9	6.7	5.7	5.5	5.3
5°	9.9	7.3	5.5	4.5	4.0	3.8
7.5°	10.7	6.7	4.5	3.2	2.8	2.6
10°	11.1	5.9	3.6	2.4	1.8	1.8
12.5°	11.3	5.1	2.6	1.6	1.0	1.0
15°	11.1	4.2	2.0	0.8	0.2	0.2
17.5°	10.1	3.4	1.2	0.2	0.0	0.0
20°	8.7	2.8	0.8	0.0	0.0	0.0
21°	8.3	2.4	0.6	0.0	0.0	0.0
22°	7.7	2.2	0.4	0.0	0.0	0.0
23°	7.1	2.0	0.4	0.0	0.0	0.0
24°	6.5	1.8	0.2	0.0	0.0	0.0
25°	6.1	1.6	0.2	0.0	0.0	0.0
26°	5.7	1.4	0.2	0.0	0.0	0.0
27°	5.1	1.2	0.0	0.0	0.0	0.0
28°	4.7	1.0	0.0	0.0	0.0	0.0
29°	4.0	0.8	0.0	0.0	0.0	0.0
30°	3.4	0.6	0.0	0.0	0.0	0.0
31°	2.8	0.6	0.0	0.0	0.0	0.0
32°	2.4	0.4	0.0	0.0	0.0	0.0
33°	2.0	0.4	0.0	0.0	0.0	0.0
34°	1.8	0.4	0.0	0.0	0.0	0.0
35°	1.6	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.2	0.0	0.0	0.0	0.0
37°	1.0	0.2	0.0	0.0	0.0	0.0
38°	0.8	0.2	0.0	0.0	0.0	0.0
39°	0.6	0.0	0.0	0.0	0.0	0.0
40°	0.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.2	0.6	0.6
55°	0.2	0.4	0.2	0.4	0.8	0.8
57.5°	0.2	0.4	0.4	0.6	0.8	1.0
60°	0.4	0.6	0.6	0.6	1.0	1.0
62.5°	0.4	0.6	0.8	0.8	1.0	1.2
65°	0.4	0.8	0.8	0.8	1.0	1.2
67.5°	0.6	0.8	0.8	0.8	1.0	1.2
70°	0.6	0.8	0.8	0.8	1.0	1.0
72.5°	0.6	0.8	0.6	0.8	0.8	1.0
75°	0.6	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)