

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: P1320584

Luminaire Tested: LDSQA3D02R20B2750DE010 3LSQCA30R 1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

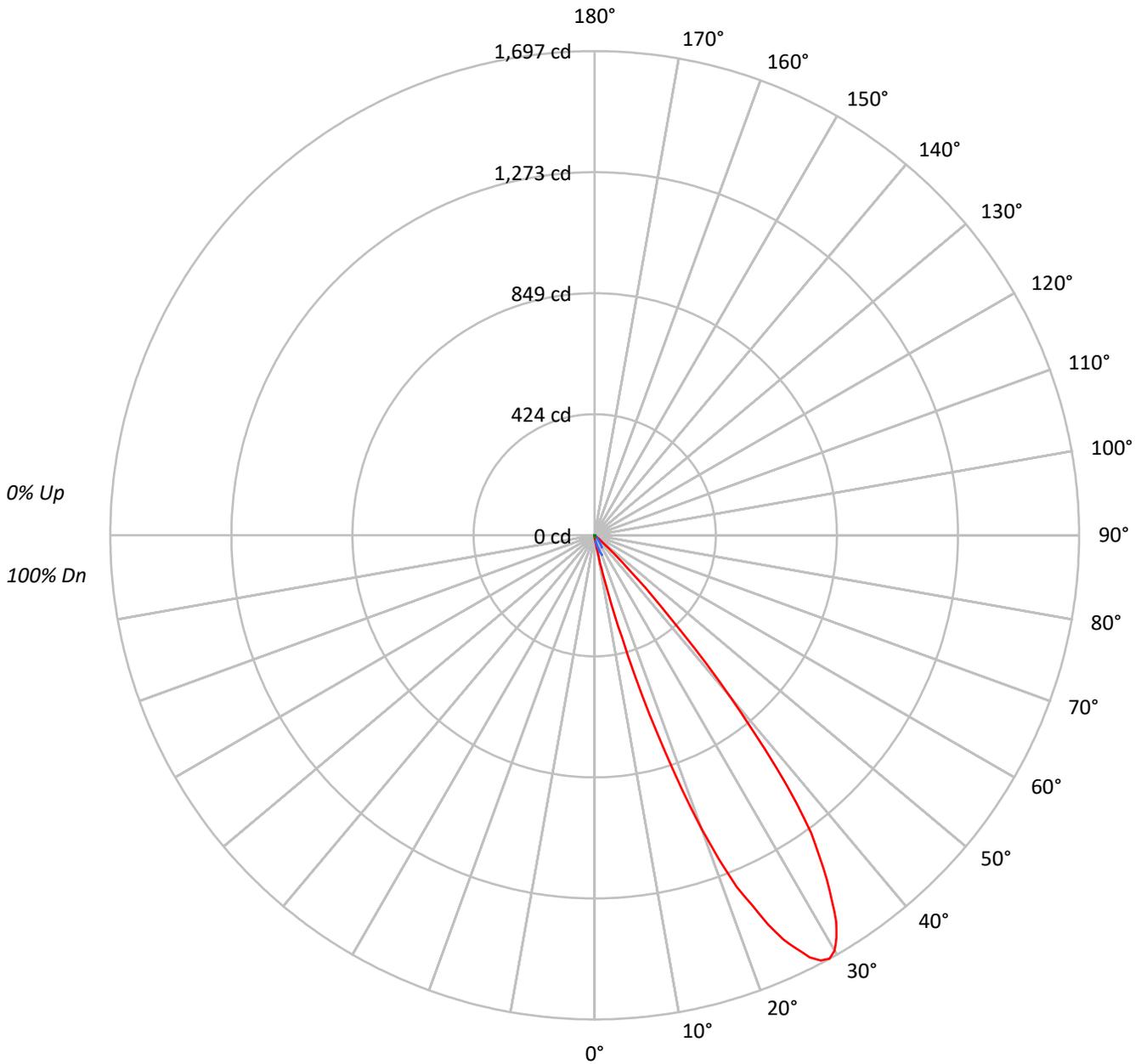
Test Method: LM-79-2019  
Report Number: P1320584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R20B2750DE010 3LSQCA30R 1MW\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 237.9 lumens  
Efficiency: N/A  
Efficacy: 82.1 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°	1412	1412	1412	1412	1412
5°	3250	2420	1348	830	709
10°	10230	4232	1102	455	332
15°	66291	7809	802	160	36
20°	200082	13379	550	0	0
25°	297145	13492	323	0	0
30°	334154	10261	119	0	0
35°	288309	6118	84	0	0
40°	166030	2091	0	0	0
45°	40504	852	49	0	49
50°	4850	241	54	54	161
55°	661	0	120	120	270
60°	69	0	207	207	379
65°	82	82	367	367	530
70°	101	101	453	453	554
75°	0	133	599	399	599
80°	0	198	595	397	595
85°	0	395	1186	395	395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 40748 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	22.1	9.3
20°-30°	96.1	40.4
30°-40°	96.8	40.7
40°-50°	19.4	8.2
50°-60°	1.0	0.4
60°-70°	0.6	0.3
70°-80°	0.6	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°	119.3	50.1
0°-40°	216.1	90.8
0°-60°	236.5	99.4
0°-90°	237.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	237.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	19	14	8	5	4	3
15°	372	44	4	1	0	146
25°	1564	71	2	0	0	705
35°	1371	29	0	0	0	816
45°	166	4	0	0	0	181
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°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	12.3	12.3	12.1	12.1	11.9	12.1	11.7	11.9	11.9	11.7	10.6
5°	18.8	19.2	19.0	19.0	18.8	19.0	18.6	18.1	17.7	17.7	14.0
7.5°	30.9	30.7	30.2	30.4	29.8	29.4	28.9	28.7	27.4	26.8	18.4
10°	58.5	59.8	58.7	58.5	54.6	54.4	51.8	48.2	44.9	43.2	24.2
12.5°	161.1	168.0	157.2	152.0	149.0	137.3	132.4	119.6	107.3	98.0	30.7
15°	371.8	388.9	367.1	368.6	350.4	317.2	288.0	263.0	233.4	203.6	43.8
17.5°	728.5	714.7	702.8	682.7	645.8	597.0	534.2	470.5	415.4	357.8	61.1
20°	1091.7	1079.4	1052.4	1008.6	961.5	889.2	814.5	718.8	626.2	539.4	73.0
21°	1216.7	1212.6	1168.4	1141.4	1068.8	999.7	913.6	811.2	706.9	604.2	74.9
22°	1328.4	1303.7	1280.0	1240.0	1167.9	1092.8	996.9	889.2	776.0	661.8	75.1
23°	1405.7	1394.4	1372.0	1326.8	1255.2	1166.8	1065.8	953.1	833.9	702.6	74.5
24°	1491.2	1476.9	1444.1	1391.4	1319.1	1231.8	1116.5	1004.7	875.1	736.9	72.8
25°	1563.7	1541.5	1502.6	1445.8	1366.8	1276.7	1160.8	1037.9	903.9	760.0	71.0
26°	1610.8	1598.7	1548.8	1487.1	1402.4	1309.6	1191.2	1063.4	922.4	770.6	68.2
27°	1659.8	1637.6	1588.5	1517.5	1425.7	1330.9	1208.5	1075.7	928.9	771.1	64.8
28°	1687.9	1663.7	1608.2	1533.5	1440.9	1342.8	1218.5	1079.6	927.6	764.4	60.7
29°	1696.7	1666.3	1612.1	1536.1	1444.5	1343.7	1216.9	1074.0	916.2	748.0	55.9
30°	1680.3	1649.2	1597.8	1523.8	1432.9	1332.9	1202.9	1055.4	895.9	724.4	51.6
31°	1644.5	1618.1	1568.5	1494.2	1407.0	1307.6	1171.2	1025.0	861.3	692.9	46.6
32°	1597.2	1571.3	1522.5	1455.3	1366.6	1266.4	1127.8	977.5	820.7	645.8	41.7
33°	1526.1	1511.2	1467.4	1403.3	1314.5	1207.4	1069.5	920.7	762.9	593.6	37.4
34°	1454.2	1435.5	1404.8	1334.6	1239.2	1132.3	993.5	842.3	692.2	535.1	33.3
35°	1371.3	1360.1	1311.9	1255.8	1159.9	1050.7	912.7	766.1	610.0	469.8	29.1
36°	1291.0	1273.7	1218.9	1159.5	1066.4	948.3	812.1	674.3	538.9	408.7	24.8
37°	1174.4	1148.1	1109.0	1046.4	937.5	836.9	712.5	584.7	451.5	342.7	20.1
38°	1037.3	1025.0	970.8	907.7	817.7	722.3	599.2	490.8	372.5	286.1	15.3
39°	875.6	875.3	823.5	778.0	689.9	603.9	493.0	398.4	307.5	230.4	11.9
40°	738.5	713.0	681.0	623.8	556.2	483.2	386.1	311.8	238.6	185.7	9.3
42.5°	387.1	385.0	366.2	323.2	285.4	242.5	192.8	160.6	125.7	102.3	5.8
45°	166.3	167.3	154.4	147.9	133.2	115.3	97.4	81.2	69.5	56.4	3.5
47.5°	42.1	40.4	39.9	41.5	41.5	40.2	36.1	33.9	31.3	28.7	1.9
50°	18.1	17.7	17.3	17.3	16.2	15.5	14.5	13.2	12.1	10.8	0.9
52.5°	6.7	6.9	7.1	6.9	6.9	6.7	6.7	6.5	5.8	5.2	0.4
55°	2.2	2.2	2.2	2.4	2.4	2.6	2.6	2.6	2.6	2.4	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	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°	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	9.5	8.4	7.1	6.0	5.8	5.6
5°	10.6	7.8	5.8	4.8	4.3	4.1
7.5°	11.4	7.1	4.8	3.5	3.0	2.8
10°	11.9	6.3	3.9	2.6	1.9	1.9
12.5°	12.1	5.4	2.8	1.7	1.1	1.1
15°	11.9	4.5	2.2	0.9	0.2	0.2
17.5°	10.8	3.7	1.3	0.2	0.0	0.0
20°	9.3	3.0	0.9	0.0	0.0	0.0
21°	8.9	2.6	0.6	0.0	0.0	0.0
22°	8.2	2.4	0.4	0.0	0.0	0.0
23°	7.6	2.2	0.4	0.0	0.0	0.0
24°	6.9	1.9	0.2	0.0	0.0	0.0
25°	6.5	1.7	0.2	0.0	0.0	0.0
26°	6.0	1.5	0.2	0.0	0.0	0.0
27°	5.4	1.3	0.0	0.0	0.0	0.0
28°	5.0	1.1	0.0	0.0	0.0	0.0
29°	4.3	0.9	0.0	0.0	0.0	0.0
30°	3.7	0.6	0.0	0.0	0.0	0.0
31°	3.0	0.6	0.0	0.0	0.0	0.0
32°	2.6	0.4	0.0	0.0	0.0	0.0
33°	2.2	0.4	0.0	0.0	0.0	0.0
34°	1.9	0.4	0.0	0.0	0.0	0.0
35°	1.7	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.2	0.0	0.0	0.0	0.0
37°	1.1	0.2	0.0	0.0	0.0	0.0
38°	0.9	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	0.9	0.9
57.5°	0.2	0.4	0.4	0.6	0.9	1.1
60°	0.4	0.6	0.6	0.6	1.1	1.1
62.5°	0.4	0.6	0.9	0.9	1.1	1.3
65°	0.4	0.9	0.9	0.9	1.1	1.3
67.5°	0.6	0.9	0.9	0.9	1.1	1.3
70°	0.6	0.9	0.9	0.9	1.1	1.1
72.5°	0.6	0.9	0.6	0.9	0.9	1.1
75°	0.6	0.9	0.6	0.6	0.9	0.9
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)