

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: P1320300

Luminaire Tested: LDSQA3D17R509840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320300  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

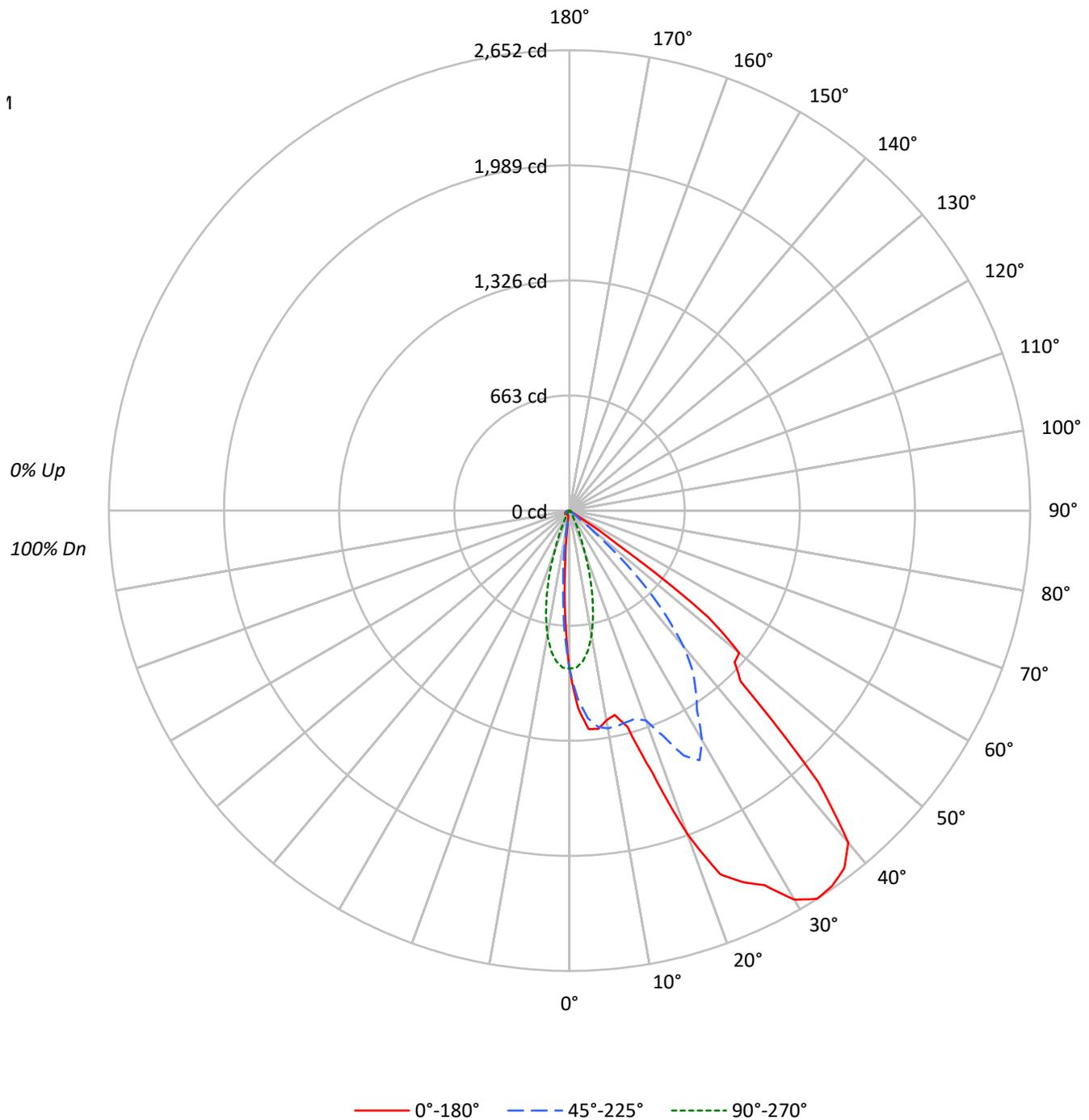
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1415.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	37	36	

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

	0°	45°	90°	135°	180°
0°	156671	156671	156671	156671	156671
5°	218452	207249	150596	72385	46972
10°	214455	222726	127277	15249	6540
15°	229969	225083	89987	5331	5117
20°	363160	235711	47505	4564	4802
25°	448748	296005	18946	4257	4732
30°	514485	303588	7676	4216	4952
35°	554668	266465	3406	4457	5508
40°	561467	229452	2518	5036	6160
45°	339327	148717	2436	5456	6990
50°	341907	25721	2679	6350	8011
55°	101038	1501	3003	7116	8978
60°	1722	1722	2997	7716	9886
65°	1508	1508	3056	8110	10677
70°	1863	1863	3122	8762	11934
75°	1664	1664	3327	9116	12443
80°	1190	2479	3670	8629	13588
85°	2371	4940	4940	9880	12251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 387601 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	5.2
10°-20°	182.7	12.9
20°-30°	342.2	24.2
30°-40°	409.1	28.9
40°-50°	293.2	20.7
50°-60°	90.4	6.4
60°-70°	11.8	0.8
70°-80°	8.6	0.6
80°-90°	3.5	0.2
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°	598.4	42.3
0°-40°	1007.5	71.2
0°-60°	1391.1	98.3
0°-90°	1415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	910	910	910	910	910	
5°	1264	1199	871	419	272	117
15°	1290	1262	505	30	29	413
25°	2362	1558	100	22	25	1088
35°	2638	1267	16	21	26	1637
45°	1393	611	10	22	29	1280
55°	336	5	10	24	30	433
65°	4	4	8	20	26	4
75°	2	2	5	14	19	2
85°	1	2	2	5	6	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7
2.5°	1137.8	1140.3	1144.0	1134.0	1127.8	1122.8	1114.1	1111.6	1090.4	1081.7	1073.0
5°	1263.6	1261.2	1263.6	1259.9	1257.4	1249.9	1242.5	1230.0	1216.3	1198.8	1178.9
7.5°	1267.4	1264.9	1269.9	1269.9	1274.9	1274.9	1274.9	1276.1	1268.6	1256.2	1238.7
10°	1226.3	1226.3	1231.2	1228.8	1237.5	1241.2	1249.9	1264.9	1272.4	1273.6	1268.6
12.5°	1205.1	1205.1	1206.3	1201.3	1203.8	1207.6	1217.5	1235.0	1252.4	1269.9	1279.8
15°	1289.8	1292.3	1274.9	1249.9	1231.2	1211.3	1205.1	1216.3	1235.0	1262.4	1284.8
17.5°	1577.7	1581.4	1562.7	1502.9	1445.6	1363.3	1289.8	1253.7	1233.7	1256.2	1286.1
20°	1981.5	1967.7	1935.3	1871.8	1788.3	1661.2	1546.5	1430.6	1319.7	1286.1	1296.0
22.5°	2266.8	2261.8	2235.7	2164.6	2092.4	1974.0	1828.2	1666.2	1505.4	1403.2	1349.6
25°	2361.5	2357.8	2334.1	2291.8	2251.9	2162.2	2031.3	1868.1	1699.8	1557.7	1423.2
27.5°	2432.6	2427.6	2390.2	2342.9	2301.7	2210.8	2091.1	1967.7	1813.2	1621.3	1414.4
30°	2587.1	2573.4	2521.1	2436.3	2357.8	2231.9	2099.8	1946.6	1737.2	1526.6	1324.7
32.5°	2651.9	2644.4	2599.6	2531.0	2445.0	2280.5	2079.9	1823.2	1547.8	1365.8	1218.8
35°	2638.2	2627.0	2580.9	2502.4	2397.7	2239.4	1971.5	1618.8	1394.5	1267.4	1101.6
37.5°	2597.1	2580.9	2526.0	2433.8	2306.7	2099.8	1749.7	1453.1	1308.5	1165.2	942.1
40°	2497.4	2471.2	2407.7	2311.7	2184.6	1912.9	1547.8	1353.4	1218.8	1020.6	763.9
42.5°	2116.0	2102.3	2133.5	2117.3	2005.1	1684.9	1404.5	1262.4	1076.7	825.0	553.3
45°	1393.2	1416.9	1473.0	1569.0	1591.4	1449.3	1287.3	1112.9	886.0	610.6	319.0
47.5°	1289.8	1284.8	1298.5	1317.2	1321.0	1261.2	1114.1	919.7	658.0	348.9	88.5
50°	1276.1	1268.6	1257.4	1235.0	1187.6	1071.7	904.7	670.5	380.1	96.0	6.2
52.5°	1008.2	1000.7	1000.7	968.3	907.2	795.1	624.3	368.9	105.9	6.2	5.0
55°	336.5	358.9	355.2	353.9	381.3	351.4	269.2	94.7	8.7	5.0	5.0
57.5°	6.2	6.2	6.2	11.2	17.4	24.9	15.0	7.5	5.0	5.0	5.0
60°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
62.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
77.5°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	909.7	909.7	909.7	909.7	909.7	909.7	909.7	909.7
2.5°	1053.0	1035.6	1001.9	906.0	800.1	679.2	596.9	587.0
5°	1147.7	1121.6	1066.7	871.1	629.3	418.7	311.5	271.7
7.5°	1210.1	1175.2	1107.9	813.8	458.6	220.6	118.4	94.7
10°	1247.4	1215.0	1129.1	727.8	291.6	87.2	39.9	37.4
12.5°	1267.4	1236.2	1136.5	624.3	164.5	39.9	31.2	31.2
15°	1281.1	1247.4	1125.3	504.7	82.2	29.9	28.7	28.7
17.5°	1287.3	1246.2	1092.9	380.1	43.6	27.4	27.4	27.4
20°	1291.1	1232.5	1033.1	259.2	29.9	24.9	26.2	26.2
22.5°	1294.8	1198.8	954.6	164.5	23.7	23.7	24.9	24.9
25°	1287.3	1140.3	843.7	99.7	21.2	22.4	23.7	24.9
27.5°	1233.7	1051.8	709.1	61.1	18.7	21.2	23.7	24.9
30°	1141.5	922.2	553.3	38.6	17.4	21.2	23.7	24.9
32.5°	1021.9	773.9	395.0	23.7	17.4	21.2	23.7	24.9
35°	861.1	591.9	256.7	16.2	17.4	21.2	24.9	26.2
37.5°	680.4	413.7	138.3	12.5	17.4	21.2	24.9	26.2
40°	489.8	248.0	49.8	11.2	16.2	22.4	26.2	27.4
42.5°	286.6	92.2	8.7	10.0	16.2	22.4	26.2	27.4
45°	82.2	10.0	5.0	10.0	16.2	22.4	27.4	28.7
47.5°	6.2	3.7	5.0	10.0	16.2	22.4	27.4	29.9
50°	3.7	3.7	3.7	10.0	16.2	23.7	28.7	29.9
52.5°	5.0	5.0	5.0	10.0	16.2	23.7	28.7	29.9
55°	5.0	5.0	5.0	10.0	16.2	23.7	28.7	29.9
57.5°	5.0	5.0	5.0	10.0	16.2	22.4	28.7	29.9
60°	5.0	5.0	5.0	8.7	15.0	22.4	27.4	28.7
62.5°	5.0	5.0	5.0	8.7	15.0	21.2	27.4	27.4
65°	5.0	5.0	5.0	7.5	13.7	19.9	24.9	26.2
67.5°	5.0	5.0	5.0	7.5	12.5	18.7	23.7	24.9
70°	3.7	5.0	5.0	6.2	11.2	17.4	22.4	23.7
72.5°	3.7	3.7	5.0	6.2	10.0	15.0	19.9	21.2
75°	3.7	3.7	3.7	5.0	8.7	13.7	17.4	18.7
77.5°	3.7	3.7	3.7	5.0	7.5	11.2	16.2	16.2
80°	2.5	3.7	3.7	3.7	6.2	8.7	12.5	13.7
82.5°	2.5	2.5	2.5	3.7	5.0	7.5	10.0	10.0
85°	2.5	2.5	2.5	2.5	3.7	5.0	6.2	6.2
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)