

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: P1316933

Luminaire Tested: LDSQA3D20R459740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R459740D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

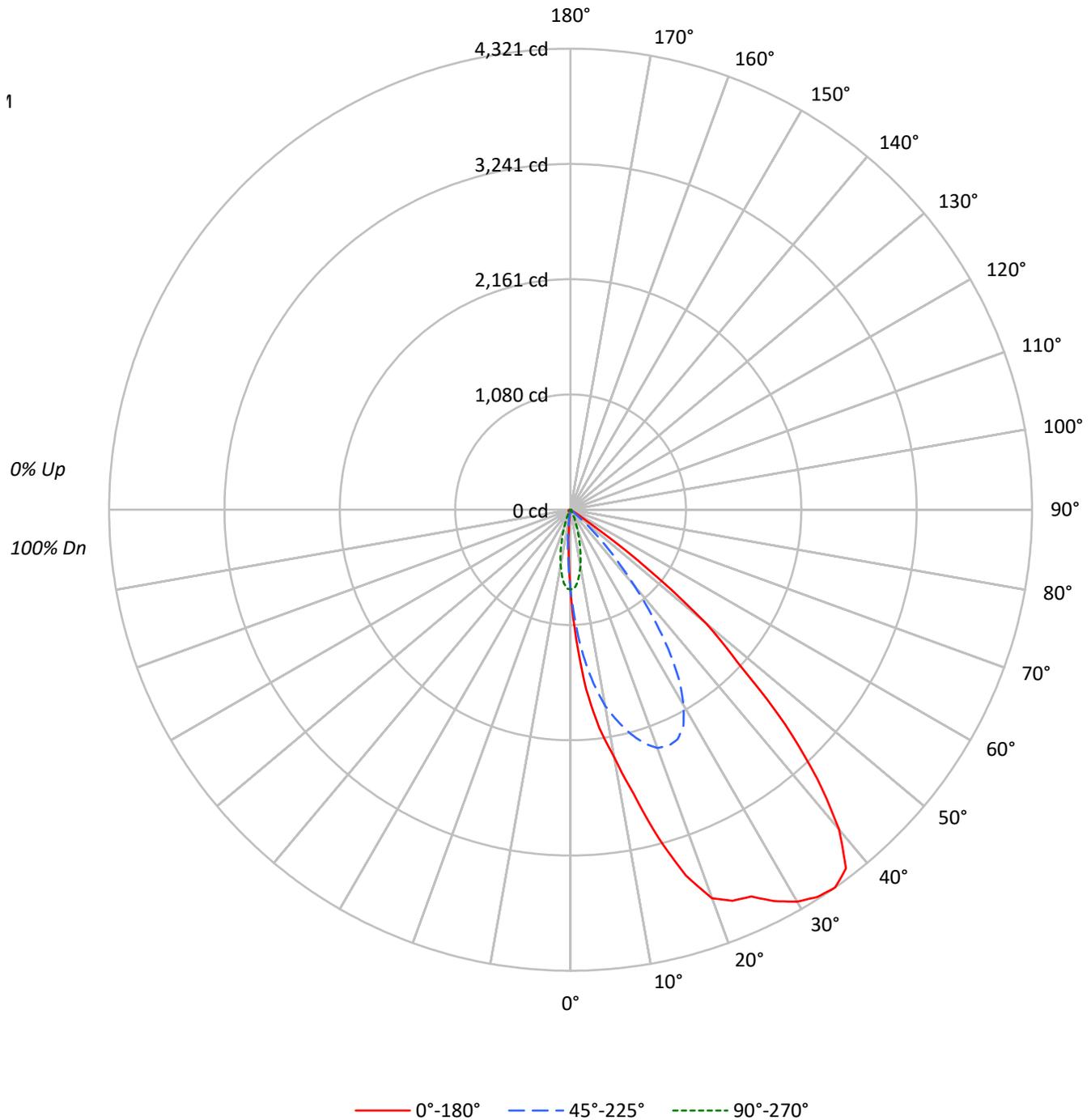
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1958.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°	45°	90°	135°	180°
0°	128323	128323	128323	128323	128323
5°	292427	237227	120031	48130	32830
10°	412068	325888	92774	10598	4862
15°	567861	387727	59266	3495	2924
20°	710064	435463	30919	2401	2401
25°	759879	450876	14309	1862	2185
30°	843409	421058	6503	1949	2287
35°	908532	335677	2060	2060	2754
40°	879116	208004	1102	2585	3305
45°	690370	98106	1193	3191	3994
50°	443560	11414	1742	3939	5251
55°	67349	991	1952	4924	6396
60°	1137	1137	2239	5649	6751
65°	1345	1345	2649	5990	7987
70°	1662	1662	3273	6596	9064
75°	1065	2196	4325	7652	9782
80°	1587	3273	4860	8133	11406
85°	0	3162	6521	9683	9683

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 690370 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	4.2
10°-20°	294.8	15.1
20°-30°	517.9	26.5
30°-40°	588.1	30.0
40°-50°	380.8	19.4
50°-60°	74.8	3.8
60°-70°	9.1	0.5
70°-80°	7.5	0.4
80°-90°	3.4	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°	894.2	45.7
0°-40°	1482.4	75.7
0°-60°	1937.9	99.0
0°-90°	1958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1958.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	745	745	745	745	745	
5°	1692	1372	694	278	190	180
15°	3185	2175	332	20	16	918
25°	3999	2373	75	10	12	1874
35°	4321	1597	10	10	13	2657
45°	2834	403	5	13	16	2136
55°	224	3	6	16	21	428
65°	3	3	6	15	20	3
75°	2	3	6	12	15	2
85°	0	2	3	5	5	0
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°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	1210.1	1206.8	1211.7	1179.0	1177.4	1152.8	1146.2	1118.4	1080.7	1062.7	1020.2
5°	1691.5	1675.2	1675.2	1635.9	1622.8	1594.9	1547.4	1488.5	1439.4	1372.2	1300.2
7.5°	2063.2	2060.0	2060.0	2025.6	1992.8	1953.5	1889.7	1822.5	1743.9	1640.8	1536.0
10°	2356.3	2361.3	2346.5	2315.4	2267.9	2225.3	2150.0	2068.2	1971.5	1863.5	1724.3
12.5°	2726.4	2690.4	2678.9	2608.5	2547.9	2466.1	2376.0	2282.7	2163.1	2027.2	1870.0
15°	3184.9	3139.1	3093.2	2999.9	2898.4	2772.3	2631.4	2493.9	2340.0	2174.6	1978.1
17.5°	3594.3	3594.3	3533.7	3386.3	3255.3	3068.7	2878.7	2695.3	2513.5	2295.8	2050.1
20°	3874.3	3859.6	3813.7	3705.6	3556.6	3345.4	3098.1	2841.0	2621.6	2376.0	2091.1
22.5°	3966.0	3962.7	3964.4	3900.5	3781.0	3561.5	3258.6	2955.7	2680.6	2395.6	2071.4
25°	3998.8	4005.3	4021.7	3997.1	3907.1	3687.6	3356.9	3009.7	2698.6	2372.7	1996.1
27.5°	4134.7	4121.6	4139.6	4123.2	4021.7	3759.7	3376.5	2996.6	2659.3	2289.2	1861.8
30°	4241.1	4237.8	4268.9	4254.2	4121.6	3805.5	3358.5	2947.5	2562.7	2117.3	1650.6
32.5°	4301.7	4303.3	4311.5	4250.9	4054.4	3705.6	3270.1	2847.6	2380.9	1892.9	1375.5
35°	4321.3	4311.5	4265.7	4116.7	3848.1	3474.8	3052.3	2610.2	2133.7	1596.6	1087.3
37.5°	4236.2	4185.4	4067.5	3844.8	3533.7	3184.9	2773.9	2310.5	1794.7	1260.9	810.6
40°	3910.3	3843.2	3694.2	3466.6	3176.7	2839.4	2418.6	1933.9	1391.9	925.2	569.8
42.5°	3422.4	3388.0	3232.4	3034.3	2788.6	2448.0	2014.1	1522.9	1030.0	638.6	363.5
45°	2834.5	2790.3	2692.0	2516.8	2323.6	1966.6	1562.2	1090.6	702.5	402.8	180.1
47.5°	2125.5	2128.7	2061.6	1929.0	1739.0	1441.0	1069.3	732.0	440.5	208.0	40.9
50°	1655.5	1632.6	1537.6	1401.7	1180.6	959.6	691.0	461.8	232.5	42.6	3.3
52.5°	917.0	931.7	881.0	836.8	722.1	573.1	407.7	234.2	49.1	4.9	3.3
55°	224.3	237.4	227.6	232.5	240.7	214.5	165.4	45.8	4.9	3.3	3.3
57.5°	4.9	4.9	4.9	4.9	8.2	11.5	11.5	3.3	3.3	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.3	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3
82.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	745.1	745.1	745.1	745.1	745.1	745.1	745.1	745.1
2.5°	998.9	967.8	910.4	740.1	594.4	479.8	411.0	404.5
5°	1236.3	1152.8	1031.6	694.3	438.8	278.4	201.4	189.9
7.5°	1424.6	1306.7	1120.0	619.0	299.7	142.5	78.6	65.5
10°	1580.2	1413.2	1165.9	530.5	188.3	60.6	32.7	27.8
12.5°	1686.6	1485.2	1174.1	432.3	108.1	29.5	21.3	19.6
15°	1755.4	1508.1	1134.8	332.4	60.6	19.6	18.0	16.4
17.5°	1783.2	1488.5	1059.5	240.7	32.7	14.7	14.7	14.7
20°	1770.1	1424.6	948.1	168.7	21.3	13.1	13.1	13.1
22.5°	1707.9	1314.9	808.9	113.0	14.7	11.5	11.5	11.5
25°	1585.1	1165.9	661.5	75.3	9.8	9.8	11.5	11.5
27.5°	1401.7	982.5	506.0	50.8	8.2	9.8	11.5	11.5
30°	1170.8	777.8	363.5	32.7	8.2	9.8	9.8	11.5
32.5°	930.1	566.6	239.1	19.6	6.5	9.8	11.5	13.1
35°	674.6	386.4	152.3	9.8	8.2	9.8	11.5	13.1
37.5°	473.2	252.2	88.4	6.5	8.2	9.8	13.1	13.1
40°	307.8	140.8	32.7	4.9	8.2	11.5	13.1	14.7
42.5°	160.5	49.1	6.5	4.9	8.2	11.5	14.7	16.4
45°	40.9	6.5	1.6	4.9	9.8	13.1	16.4	16.4
47.5°	4.9	1.6	1.6	6.5	9.8	14.7	16.4	18.0
50°	1.6	3.3	3.3	6.5	9.8	14.7	18.0	19.6
52.5°	3.3	3.3	3.3	6.5	11.5	14.7	19.6	21.3
55°	3.3	3.3	3.3	6.5	11.5	16.4	19.6	21.3
57.5°	3.3	3.3	3.3	6.5	11.5	16.4	19.6	19.6
60°	3.3	3.3	3.3	6.5	11.5	16.4	19.6	19.6
62.5°	3.3	3.3	4.9	6.5	11.5	14.7	19.6	19.6
65°	3.3	4.9	4.9	6.5	11.5	14.7	18.0	19.6
67.5°	3.3	3.3	4.9	6.5	11.5	14.7	18.0	19.6
70°	3.3	3.3	4.9	6.5	9.8	13.1	16.4	18.0
72.5°	3.3	3.3	4.9	6.5	9.8	13.1	14.7	16.4
75°	3.3	3.3	4.9	6.5	8.2	11.5	14.7	14.7
77.5°	3.3	3.3	4.9	4.9	8.2	9.8	13.1	13.1
80°	3.3	3.3	4.9	4.9	6.5	8.2	9.8	11.5
82.5°	3.3	3.3	3.3	4.9	4.9	6.5	8.2	8.2
85°	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9
87.5°	1.6	3.3	3.3	3.3	3.3	3.3	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)