

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: P1309586

Luminaire Tested: LDSQA3D20R459030D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309586  
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: LDSQA3D20R459030D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

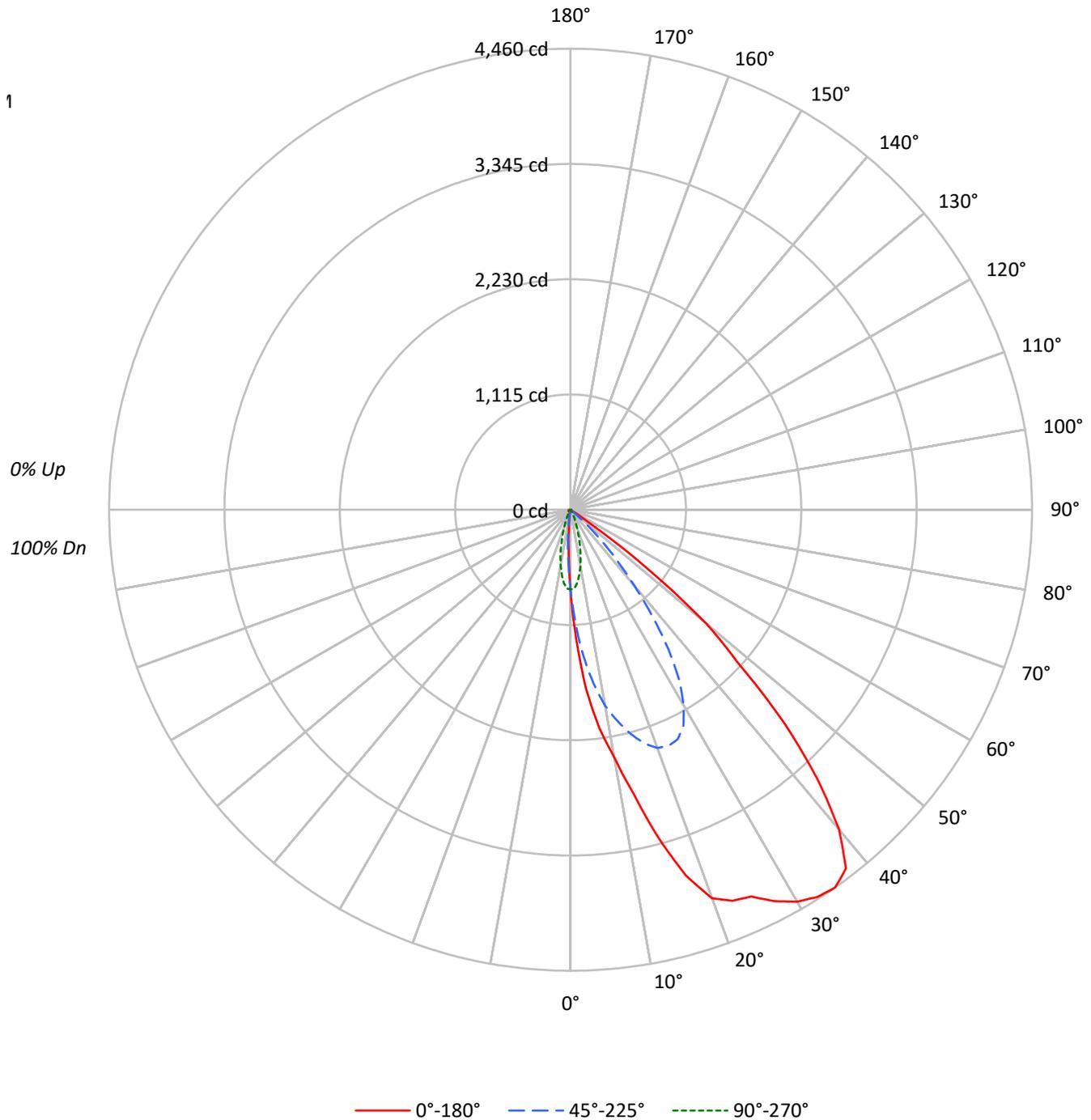
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2021.0 lumens  
Efficiency: N/A  
Efficacy: 70.2 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 (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				
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	132439	132439	132439	132439	132439
5°	301849	244868	123886	49669	33902
10°	425342	336363	95764	10930	5019
15°	586137	400208	61174	3619	3013
20°	732919	449465	31908	2474	2474
25°	784316	465394	14765	1919	2242
30°	870554	434601	6722	2009	2347
35°	937777	346463	2123	2123	2838
40°	907399	214704	1147	2653	3417
45°	712582	101272	1242	3288	4116
50°	457840	11762	1822	4073	5439
55°	69540	1021	2042	5074	6606
60°	1171	1171	2342	5821	6992
65°	1386	1386	2771	6194	8273
70°	1712	1712	3424	6798	9366
75°	1131	2262	4525	7852	10114
80°	1686	3372	5058	8430	11703
85°	0	3359	6719	10078	10078

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 712582 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	4.2
10°-20°	304.3	15.1
20°-30°	534.6	26.5
30°-40°	607.0	30.0
40°-50°	393.1	19.4
50°-60°	77.2	3.8
60°-70°	9.4	0.5
70°-80°	7.8	0.4
80°-90°	3.6	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°	923.0	45.7
0°-40°	1530.1	75.7
0°-60°	2000.3	99.0
0°-90°	2021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	769	769	769	769	769	
5°	1746	1416	717	287	196	186
15°	3287	2245	343	20	17	947
25°	4127	2449	78	10	12	1935
35°	4460	1648	10	10	14	2742
45°	2926	416	5	14	17	2205
55°	232	3	7	17	22	442
65°	3	3	7	15	20	3
75°	2	3	7	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°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	1249.0	1245.7	1250.7	1216.9	1215.2	1189.9	1183.1	1154.4	1115.5	1096.9	1053.0
5°	1746.0	1729.1	1729.1	1688.5	1675.0	1646.2	1597.2	1536.4	1485.7	1416.4	1342.0
7.5°	2129.6	2126.2	2126.2	2090.8	2056.9	2016.4	1950.5	1881.2	1800.0	1693.6	1585.4
10°	2432.2	2437.2	2422.0	2389.9	2340.9	2297.0	2219.2	2134.7	2035.0	1923.4	1779.8
12.5°	2814.1	2777.0	2765.1	2692.5	2629.9	2545.4	2452.4	2356.1	2232.7	2092.4	1930.2
15°	3287.4	3240.1	3192.7	3096.4	2991.6	2861.5	2716.1	2574.1	2415.3	2244.6	2041.7
17.5°	3709.9	3709.9	3647.4	3495.3	3360.1	3167.4	2971.3	2782.0	2594.4	2369.6	2116.1
20°	3999.0	3983.7	3936.4	3824.9	3671.1	3453.0	3197.8	2932.5	2706.0	2452.4	2158.4
22.5°	4093.6	4090.2	4091.9	4026.0	3902.6	3676.1	3363.5	3050.8	2766.8	2472.7	2138.1
25°	4127.4	4134.2	4151.1	4125.7	4032.8	3806.3	3464.9	3106.5	2785.4	2449.1	2060.3
27.5°	4267.7	4254.2	4272.8	4255.9	4151.1	3880.6	3485.1	3093.0	2744.8	2362.9	1921.7
30°	4377.6	4374.2	4406.3	4391.1	4254.2	3928.0	3466.6	3042.3	2645.1	2185.4	1703.7
32.5°	4440.1	4441.8	4450.2	4387.7	4184.9	3824.9	3375.3	2939.2	2457.5	1953.8	1419.7
35°	4460.4	4450.2	4402.9	4249.1	3971.9	3586.6	3150.5	2694.1	2202.3	1647.9	1122.3
37.5°	4372.5	4320.1	4198.4	3968.5	3647.4	3287.4	2863.2	2384.8	1852.4	1301.4	836.6
40°	4036.1	3966.8	3813.0	3578.1	3278.9	2930.8	2496.4	1996.1	1436.7	955.0	588.2
42.5°	3532.5	3497.0	3336.4	3131.9	2878.4	2526.8	2078.9	1571.9	1063.1	659.2	375.2
45°	2925.7	2880.1	2778.7	2597.8	2398.4	2029.9	1612.4	1125.7	725.1	415.8	185.9
47.5°	2193.9	2197.2	2127.9	1991.0	1795.0	1487.4	1103.7	755.5	454.7	214.7	42.3
50°	1708.8	1685.1	1587.1	1446.8	1218.6	990.4	713.3	476.6	240.0	43.9	3.4
52.5°	946.5	961.7	909.3	863.7	745.4	591.6	420.9	241.7	50.7	5.1	3.4
55°	231.6	245.1	234.9	240.0	248.5	221.4	170.7	47.3	5.1	3.4	3.4
57.5°	5.1	5.1	5.1	5.1	8.5	11.8	11.8	3.4	3.4	3.4	3.4
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
82.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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°	769.0	769.0	769.0	769.0	769.0	769.0	769.0	769.0
2.5°	1031.0	998.9	939.7	764.0	613.5	495.2	424.2	417.5
5°	1276.1	1189.9	1064.8	716.6	453.0	287.3	207.9	196.1
7.5°	1470.5	1348.8	1156.1	638.9	309.3	147.0	81.1	67.6
10°	1631.0	1458.6	1203.4	547.6	194.4	62.5	33.8	28.7
12.5°	1740.9	1533.0	1211.9	446.2	111.6	30.4	22.0	20.3
15°	1811.9	1556.7	1171.3	343.1	62.5	20.3	18.6	16.9
17.5°	1840.6	1536.4	1093.5	248.5	33.8	15.2	15.2	15.2
20°	1827.1	1470.5	978.6	174.1	22.0	13.5	13.5	13.5
22.5°	1762.9	1357.2	834.9	116.6	15.2	11.8	11.8	11.8
25°	1636.1	1203.4	682.8	77.7	10.1	10.1	11.8	11.8
27.5°	1446.8	1014.1	522.3	52.4	8.5	10.1	11.8	11.8
30°	1208.5	802.8	375.2	33.8	8.5	10.1	10.1	11.8
32.5°	960.0	584.8	246.8	20.3	6.8	10.1	11.8	13.5
35°	696.4	398.9	157.2	10.1	8.5	10.1	11.8	13.5
37.5°	488.5	260.3	91.3	6.8	8.5	10.1	13.5	13.5
40°	317.8	145.4	33.8	5.1	8.5	11.8	13.5	15.2
42.5°	165.6	50.7	6.8	5.1	8.5	11.8	15.2	16.9
45°	42.3	6.8	1.7	5.1	10.1	13.5	16.9	16.9
47.5°	5.1	1.7	1.7	6.8	10.1	15.2	16.9	18.6
50°	1.7	3.4	3.4	6.8	10.1	15.2	18.6	20.3
52.5°	3.4	3.4	3.4	6.8	11.8	15.2	20.3	22.0
55°	3.4	3.4	3.4	6.8	11.8	16.9	20.3	22.0
57.5°	3.4	3.4	3.4	6.8	11.8	16.9	20.3	20.3
60°	3.4	3.4	3.4	6.8	11.8	16.9	20.3	20.3
62.5°	3.4	3.4	5.1	6.8	11.8	15.2	20.3	20.3
65°	3.4	5.1	5.1	6.8	11.8	15.2	18.6	20.3
67.5°	3.4	3.4	5.1	6.8	11.8	15.2	18.6	20.3
70°	3.4	3.4	5.1	6.8	10.1	13.5	16.9	18.6
72.5°	3.4	3.4	5.1	6.8	10.1	13.5	15.2	16.9
75°	3.4	3.4	5.1	6.8	8.5	11.8	15.2	15.2
77.5°	3.4	3.4	5.1	5.1	8.5	10.1	13.5	13.5
80°	3.4	3.4	5.1	5.1	6.8	8.5	10.1	11.8
82.5°	3.4	3.4	3.4	5.1	5.1	6.8	8.5	8.5
85°	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1
87.5°	1.7	3.4	3.4	3.4	3.4	3.4	3.4	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)