

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: P1319561

Luminaire Tested: LDSQA3D20R459835D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319561
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: LDSQA3D20R459835D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

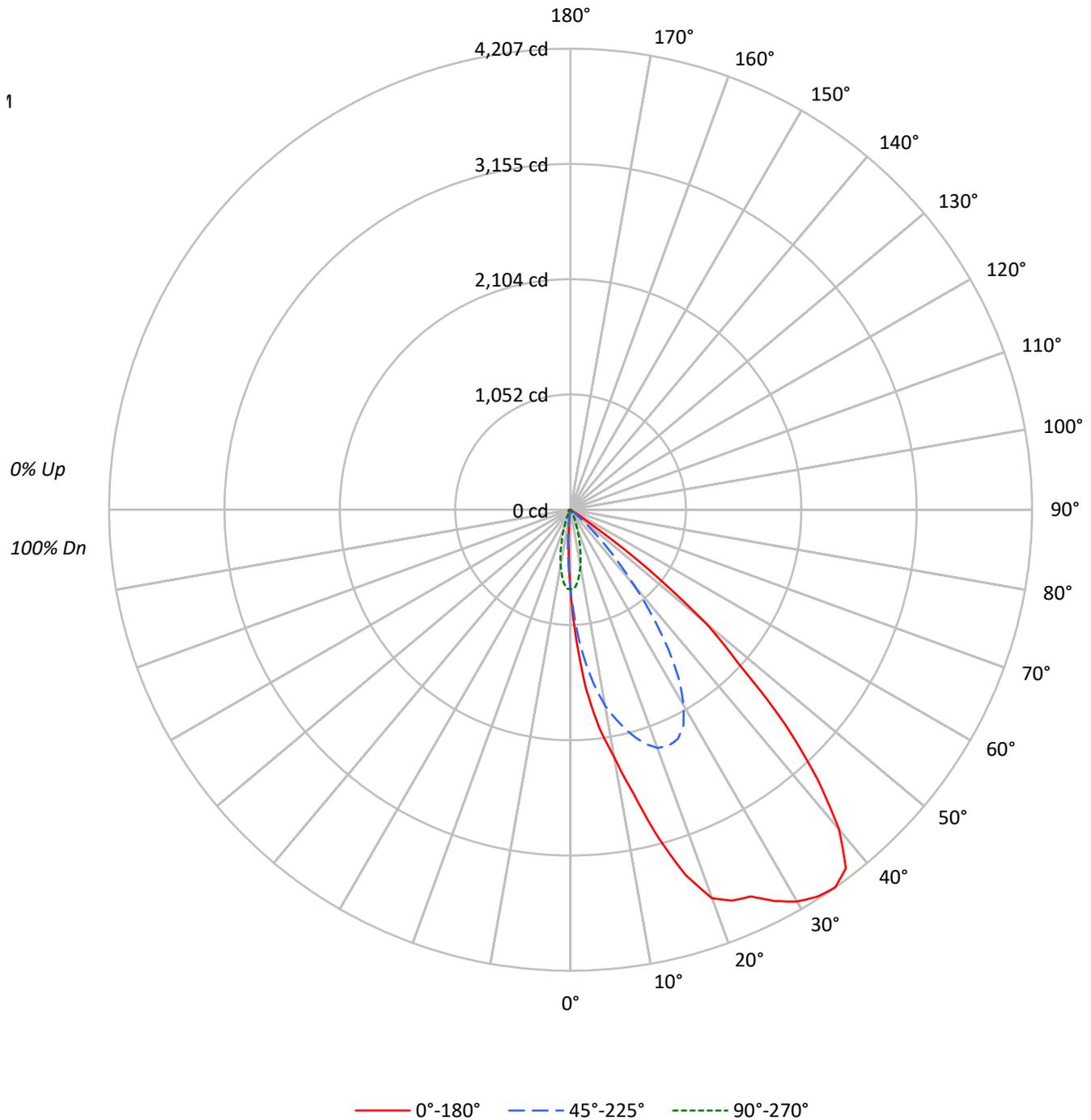
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1906.1 lumens
Efficiency: N/A
Efficacy: 69.6 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): 27.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	124913	124913	124913	124913	124913
5°	284665	230934	116850	46851	31966
10°	401138	317231	90325	10318	4739
15°	552777	377421	57697	3405	2835
20°	691205	423898	30094	2346	2346
25°	739698	438905	13929	1824	2128
30°	821017	409862	6344	1909	2227
35°	884417	326763	2018	2018	2691
40°	855780	202474	1079	2518	3215
45°	672030	95500	1169	3118	3873
50°	431771	11092	1715	3831	5117
55°	65577	961	1922	4774	6215
60°	1102	1102	2204	5477	6579
65°	1304	1304	2608	5827	7784
70°	1611	1611	3223	6445	8812
75°	1065	2129	4259	7453	9515
80°	1587	3174	4761	7934	11108
85°	0	3162	6323	9485	9485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 672030 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	4.2
10°-20°	287.0	15.1
20°-30°	504.2	26.5
30°-40°	572.5	30.0
40°-50°	370.7	19.4
50°-60°	72.8	3.8
60°-70°	8.8	0.5
70°-80°	7.4	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°	870.5	45.7
0°-40°	1443.0	75.7
0°-60°	1886.5	99.0
0°-90°	1906.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	725	725	725	725	725	
5°	1647	1336	676	271	185	175
15°	3100	2117	324	19	16	893
25°	3893	2310	73	10	11	1825
35°	4207	1554	10	10	13	2586
45°	2759	392	5	13	16	2080
55°	218	3	6	16	21	417
65°	3	3	6	14	19	3
75°	2	3	6	11	14	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°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
2.5°	1178.0	1174.8	1179.6	1147.7	1146.1	1122.2	1115.8	1088.7	1052.0	1034.5	993.1
5°	1646.6	1630.7	1630.7	1592.4	1579.7	1552.6	1506.3	1448.9	1401.1	1335.8	1265.6
7.5°	2008.4	2005.3	2005.3	1971.8	1939.9	1901.6	1839.5	1774.1	1697.6	1597.2	1495.2
10°	2293.8	2298.6	2284.2	2253.9	2207.7	2166.2	2092.9	2013.2	1919.2	1814.0	1678.5
12.5°	2654.0	2618.9	2607.8	2539.2	2480.3	2400.6	2312.9	2222.0	2105.7	1973.4	1820.4
15°	3100.3	3055.7	3011.1	2920.2	2821.4	2698.6	2561.6	2427.7	2277.8	2116.8	1925.6
17.5°	3498.8	3498.8	3439.9	3296.4	3168.9	2987.2	2802.3	2623.7	2446.8	2234.8	1995.7
20°	3771.4	3757.1	3712.4	3607.2	3462.2	3256.5	3015.9	2765.6	2552.0	2312.9	2035.5
22.5°	3860.7	3857.5	3859.1	3796.9	3680.6	3467.0	3172.1	2877.2	2609.4	2332.0	2016.4
25°	3892.6	3898.9	3914.9	3891.0	3803.3	3589.7	3267.7	2929.8	2626.9	2309.7	1943.1
27.5°	4024.9	4012.1	4029.6	4013.7	3914.9	3659.8	3286.8	2917.0	2588.7	2228.4	1812.4
30°	4128.5	4125.3	4155.6	4141.2	4012.1	3704.5	3269.3	2869.2	2494.6	2061.0	1606.8
32.5°	4187.4	4189.0	4197.0	4138.0	3946.8	3607.2	3183.2	2772.0	2317.7	1842.7	1339.0
35°	4206.6	4197.0	4152.4	4007.3	3745.9	3382.5	2971.2	2540.8	2077.0	1554.2	1058.4
37.5°	4123.7	4074.3	3959.5	3742.7	3439.9	3100.3	2700.2	2249.1	1747.0	1227.4	789.0
40°	3806.5	3741.1	3596.1	3374.5	3092.4	2764.0	2354.3	1882.5	1354.9	900.6	554.7
42.5°	3331.5	3298.0	3146.6	2953.7	2714.6	2383.0	1960.6	1482.4	1002.6	621.7	353.9
45°	2759.2	2716.2	2620.5	2450.0	2261.9	1914.4	1520.7	1061.6	683.8	392.1	175.3
47.5°	2069.0	2072.2	2006.8	1877.7	1692.8	1402.7	1040.9	712.5	428.8	202.4	39.9
50°	1611.5	1589.2	1496.8	1364.5	1149.3	934.1	672.7	449.5	226.3	41.4	3.2
52.5°	892.6	907.0	857.6	814.5	703.0	557.9	396.9	227.9	47.8	4.8	3.2
55°	218.4	231.1	221.6	226.3	234.3	208.8	161.0	44.6	4.8	3.2	3.2
57.5°	4.8	4.8	4.8	4.8	8.0	11.2	11.2	3.2	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
82.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.2
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°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
2.5°	972.3	942.1	886.3	720.5	578.6	467.0	400.1	393.7
5°	1203.5	1122.2	1004.2	675.9	427.2	271.0	196.1	184.9
7.5°	1386.8	1272.0	1090.3	602.5	291.7	138.7	76.5	63.8
10°	1538.2	1375.6	1134.9	516.5	183.3	59.0	31.9	27.1
12.5°	1641.8	1445.8	1142.9	420.8	105.2	28.7	20.7	19.1
15°	1708.8	1468.1	1104.6	323.6	59.0	19.1	17.5	15.9
17.5°	1735.9	1448.9	1031.3	234.3	31.9	14.3	14.3	14.3
20°	1723.1	1386.8	922.9	164.2	20.7	12.8	12.8	12.8
22.5°	1662.5	1280.0	787.4	110.0	14.3	11.2	11.2	11.2
25°	1543.0	1134.9	644.0	73.3	9.6	9.6	11.2	11.2
27.5°	1364.5	956.4	492.5	49.4	8.0	9.6	11.2	11.2
30°	1139.7	757.2	353.9	31.9	8.0	9.6	9.6	11.2
32.5°	905.4	551.5	232.7	19.1	6.4	9.6	11.2	12.8
35°	656.7	376.2	148.2	9.6	8.0	9.6	11.2	12.8
37.5°	460.7	245.5	86.1	6.4	8.0	9.6	12.8	12.8
40°	299.7	137.1	31.9	4.8	8.0	11.2	12.8	14.3
42.5°	156.2	47.8	6.4	4.8	8.0	11.2	14.3	15.9
45°	39.9	6.4	1.6	4.8	9.6	12.8	15.9	15.9
47.5°	4.8	1.6	1.6	6.4	9.6	14.3	15.9	17.5
50°	1.6	3.2	3.2	6.4	9.6	14.3	17.5	19.1
52.5°	3.2	3.2	3.2	6.4	11.2	14.3	19.1	20.7
55°	3.2	3.2	3.2	6.4	11.2	15.9	19.1	20.7
57.5°	3.2	3.2	3.2	6.4	11.2	15.9	19.1	19.1
60°	3.2	3.2	3.2	6.4	11.2	15.9	19.1	19.1
62.5°	3.2	3.2	4.8	6.4	11.2	14.3	19.1	19.1
65°	3.2	4.8	4.8	6.4	11.2	14.3	17.5	19.1
67.5°	3.2	3.2	4.8	6.4	11.2	14.3	17.5	19.1
70°	3.2	3.2	4.8	6.4	9.6	12.8	15.9	17.5
72.5°	3.2	3.2	4.8	6.4	9.6	12.8	14.3	15.9
75°	3.2	3.2	4.8	6.4	8.0	11.2	14.3	14.3
77.5°	3.2	3.2	4.8	4.8	8.0	9.6	12.8	12.8
80°	3.2	3.2	4.8	4.8	6.4	8.0	9.6	11.2
82.5°	3.2	3.2	3.2	4.8	4.8	6.4	8.0	8.0
85°	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8
87.5°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)