

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: P1317652

Luminaire Tested: LDSQA3D17R409827DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R409827DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

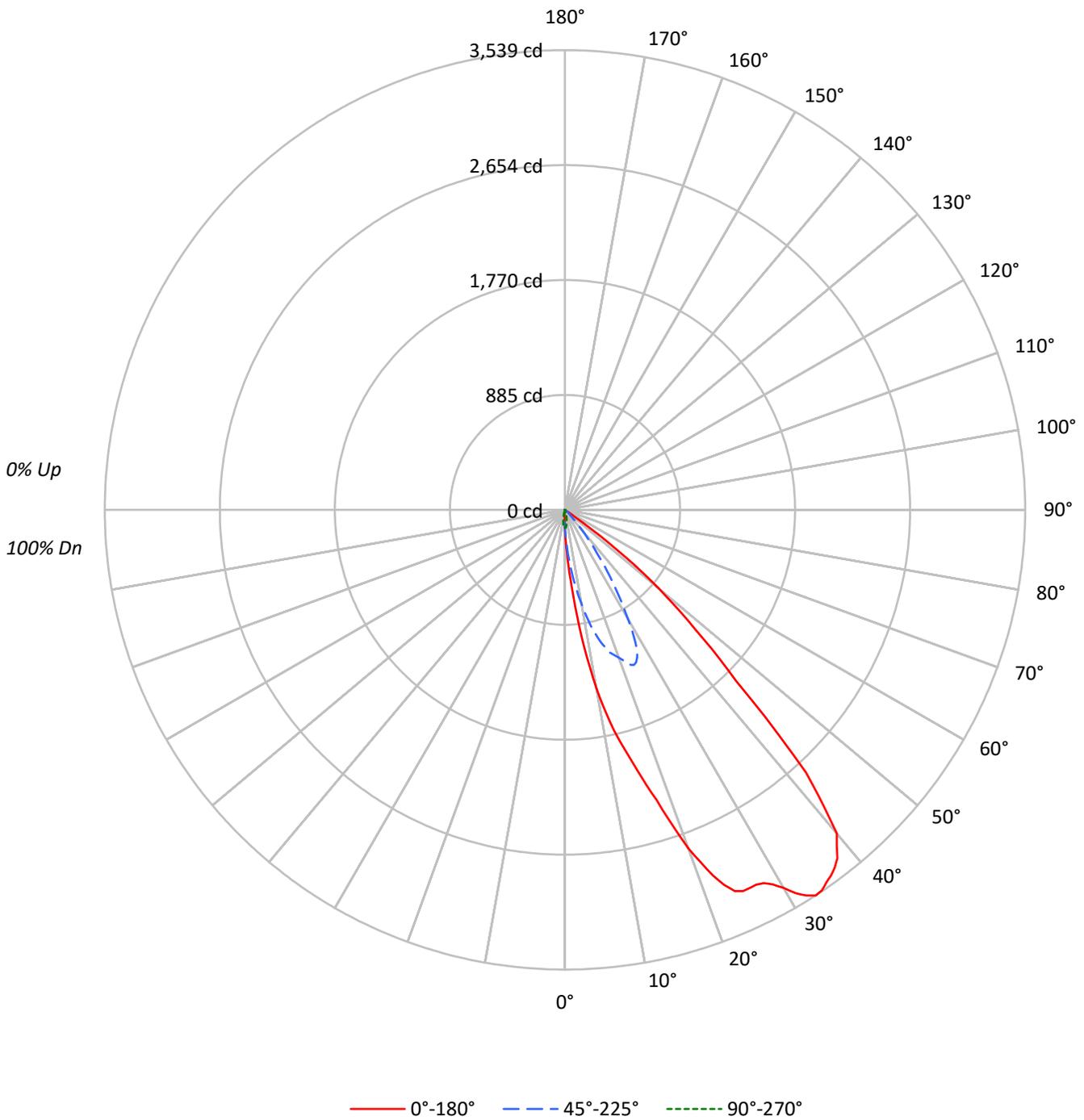
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1188.0 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
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_{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				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	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23922	23922	23922	23922	23922
5°	101567	69221	20988	3786	1884
10°	244132	128764	13011	385	0
15°	359324	187070	5456	0	0
20°	507911	221782	1998	0	0
25°	615192	246161	0	0	0
30°	667950	192562	0	0	0
35°	736530	112712	0	0	0
40°	731027	45751	0	0	0
45°	452729	13323	0	0	0
50°	252096	295	0	0	0
55°	24651	0	0	0	0
60°	0	0	379	0	0
65°	0	0	448	0	0
70°	0	554	1108	0	0
75°	0	732	1464	0	0
80°	0	1091	2182	0	0
85°	0	2174	4347	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 454872 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	2.2
10°-20°	153.1	12.9
20°-30°	349.5	29.4
30°-40°	412.7	34.7
40°-50°	220.5	18.6
50°-60°	24.0	2.0
60°-70°	0.5	0.0
70°-80°	0.9	0.1
80°-90°	0.8	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°	528.7	44.5
0°-40°	941.4	79.2
0°-60°	1185.9	99.8
0°-90°	1188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1188.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	139	139	139	139	139	
5°	588	400	121	22	11	83
15°	2015	1049	31	0	0	599
25°	3237	1295	0	0	0	1470
35°	3503	536	0	0	0	2164
45°	1859	55	0	0	0	1533
55°	82	0	0	0	0	230
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9	138.9
2.5°	323.8	317.3	321.7	312.9	312.9	293.2	294.3	277.9	253.8	193.7	137.9
5°	587.5	613.8	593.0	565.6	550.3	530.6	504.4	477.0	400.4	241.8	121.4
7.5°	983.6	981.4	946.4	916.8	882.9	830.4	781.2	714.4	570.0	276.8	100.7
10°	1396.0	1388.4	1349.0	1323.8	1259.3	1183.8	1083.1	975.9	736.3	288.8	74.4
12.5°	1739.6	1729.7	1696.9	1654.3	1583.1	1487.9	1379.6	1238.5	911.4	275.7	48.1
15°	2015.3	2013.1	1981.4	1923.4	1849.0	1756.0	1633.5	1463.9	1049.2	241.8	30.6
17.5°	2342.4	2355.6	2298.7	2236.3	2129.1	1998.9	1849.0	1655.3	1151.0	200.2	19.7
20°	2771.3	2752.7	2700.2	2609.4	2506.5	2350.1	2137.8	1861.0	1210.1	155.4	10.9
21°	2902.6	2894.9	2840.2	2756.0	2642.2	2483.6	2264.7	1966.1	1237.4	138.9	8.8
22°	3036.1	3022.9	2980.3	2898.2	2791.0	2611.6	2370.9	2074.4	1272.4	121.4	5.5
23°	3135.6	3130.2	3097.3	3016.4	2905.9	2731.9	2485.8	2175.0	1296.5	105.0	3.3
24°	3212.2	3205.7	3172.8	3111.6	3016.4	2834.8	2601.7	2283.3	1306.3	90.8	1.1
25°	3237.4	3240.7	3221.0	3172.8	3093.0	2911.3	2688.2	2368.7	1295.4	77.7	0.0
26°	3238.5	3248.3	3234.1	3206.8	3141.1	2972.6	2769.1	2419.0	1266.9	65.6	0.0
27°	3238.5	3248.3	3234.1	3213.3	3148.8	3007.6	2812.9	2424.5	1223.2	55.8	0.0
28°	3253.8	3259.3	3240.7	3215.5	3145.5	3018.6	2824.9	2391.7	1153.2	48.1	0.0
29°	3296.5	3291.0	3260.4	3226.4	3142.2	3018.6	2788.8	2329.3	1065.6	40.5	0.0
30°	3358.8	3358.8	3310.7	3257.1	3157.5	3017.5	2730.8	2216.6	968.3	32.8	0.0
31°	3443.1	3435.4	3387.3	3307.4	3190.3	3017.5	2645.5	2091.9	878.5	28.4	0.0
32°	3500.0	3495.6	3449.6	3355.5	3243.9	3017.5	2553.6	1954.0	781.2	23.0	0.0
33°	3539.4	3530.6	3478.1	3380.7	3276.8	3002.2	2450.7	1806.3	693.6	18.6	0.0
34°	3533.9	3531.7	3477.0	3376.3	3270.2	2938.7	2331.5	1642.2	612.7	15.3	0.0
35°	3503.2	3503.2	3436.5	3332.6	3223.2	2845.7	2213.3	1502.2	536.1	10.9	0.0
36°	3480.3	3471.5	3396.0	3280.1	3144.4	2699.1	2038.3	1361.0	454.0	8.8	0.0
37°	3446.4	3429.9	3345.7	3221.0	3032.8	2540.5	1854.5	1235.2	384.0	5.5	0.0
38°	3402.6	3377.4	3274.6	3152.0	2910.3	2357.7	1667.4	1094.1	319.5	3.3	0.0
39°	3322.7	3301.9	3195.8	3063.4	2763.6	2165.2	1485.8	961.7	258.2	1.1	0.0
40°	3251.6	3215.5	3095.2	2943.1	2591.9	1947.5	1305.2	831.5	203.5	0.0	0.0
42.5°	2741.8	2703.5	2676.1	2525.1	2064.5	1398.2	911.4	532.8	106.1	0.0	0.0
45°	1858.8	1867.6	1782.3	1680.5	1362.1	911.4	570.0	296.5	54.7	0.0	0.0
47.5°	1355.6	1332.6	1216.6	1024.1	798.7	532.8	297.6	143.3	21.9	0.0	0.0
50°	940.9	897.1	792.1	647.7	434.4	253.8	131.3	66.7	1.1	0.0	0.0
52.5°	510.9	480.3	407.0	295.4	180.5	97.4	52.5	27.4	0.0	0.0	0.0
55°	82.1	56.9	59.1	50.3	39.4	28.4	16.4	3.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1	1.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.2	2.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.2	2.2
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):

	112.5°	135°	157.5°	180°
0°	138.9	138.9	138.9	138.9
2.5°	93.0	63.5	48.1	41.6
5°	53.6	21.9	12.0	10.9
7.5°	26.3	7.7	4.4	4.4
10°	10.9	2.2	0.0	0.0
12.5°	3.3	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.1	0.0	0.0	0.0
67.5°	1.1	0.0	0.0	0.0
70°	1.1	0.0	0.0	0.0
72.5°	1.1	0.0	0.0	0.0
75°	1.1	0.0	0.0	0.0
77.5°	1.1	0.0	0.0	0.0
80°	1.1	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.1	0.0	0.0	0.0
85°	1.1	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)