

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

(formerly Eaton)

Brand: CORELITE

Report Number: P520099

Luminaire Tested: **SQ4-F-0U-075D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520099
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8390.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

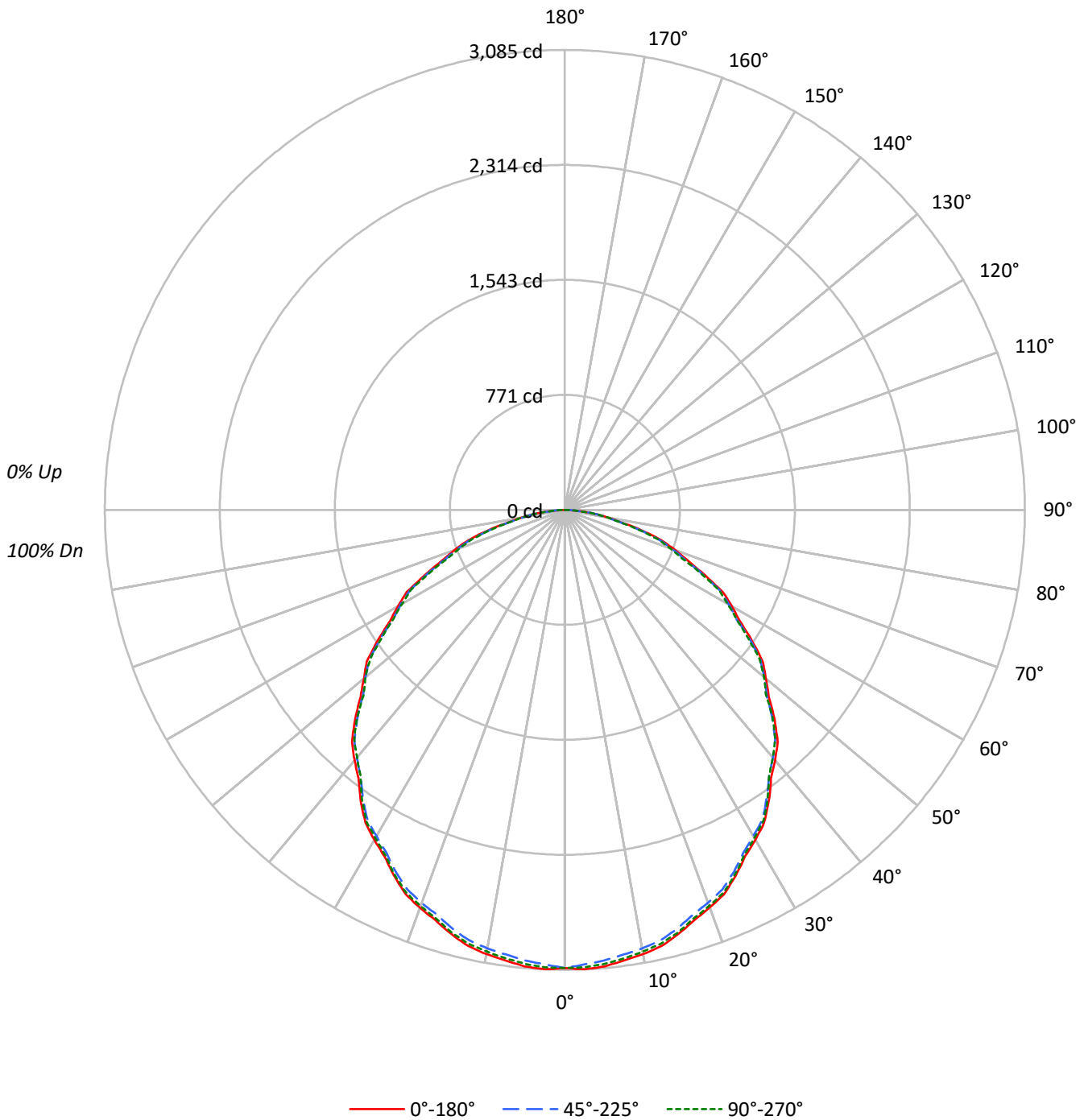
Input Watts (W): 76.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P520099

CATALOG NUMBER: SQ4-F-0U-075D-830-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P520099

CATALOG NUMBER: SQ4-F-0U-075D-830-1D-UNV-STD-W-12

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9452	9452	9452
5°	9488	9368	9437
10°	9450	9329	9398
15°	9378	9263	9342
20°	9293	9184	9257
25°	9191	9096	9163
30°	9074	8975	9025
35°	8955	8861	8903
40°	8804	8715	8703
45°	8653	8544	8569
50°	8413	8346	8346
55°	8217	8113	8038
60°	7953	7815	7747
65°	7524	7381	7280
70°	7066	6890	6715
75°	6357	6125	5992
80°	5085	4984	4936
85°	3049	3440	3539



TEST NUMBER: P520099

CATALOG NUMBER: SQ4-F-0U-075D-830-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	3.5
10°-20°	825.9	9.8
20°-30°	1240.9	14.8
30°-40°	1480.6	17.6
40°-50°	1518.4	18.1
50°-60°	1353.0	16.1
60°-70°	1008.8	12.0
70°-80°	547.1	6.5
80°-90°	125.7	1.5
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°	2356.9	28.1
0°-40°	3837.5	45.7
0°-60°	6708.9	80.0
0°-90°	8390.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8390.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3074	3074	3074	3074	3074	
5°	3074	3068	3034	3060	3057	292
15°	2945	2940	2909	2932	2934	831
25°	2708	2706	2681	2695	2700	1247
35°	2385	2380	2360	2360	2371	1490
45°	1990	1981	1964	1965	1970	1531
55°	1533	1530	1513	1499	1499	1369
65°	1034	1034	1014	1003	1000	1029
75°	535	524	516	507	504	562
85°	86	92	98	98	100	122
90°	0	0	0	0	0	



TEST NUMBER: P520099

CATALOG NUMBER: SQ4-F-0U-075D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3073.5	3073.5	3073.5	3073.5	3073.5
2.5°	3084.7	3078.1	3051.3	3073.5	3071.4
5°	3073.5	3068.1	3034.5	3059.5	3056.9
7.5°	3048.5	3042.5	3009.5	3034.5	3034.0
10°	3026.2	3018.0	2987.2	3012.2	3009.5
12.5°	2997.3	2989.0	2958.2	2983.2	2980.5
15°	2945.4	2939.9	2909.2	2931.5	2934.3
17.5°	2886.3	2875.9	2848.4	2870.2	2873.0
20°	2839.5	2831.3	2806.1	2825.6	2828.4
22.5°	2790.4	2782.2	2757.0	2776.5	2779.3
25°	2708.5	2705.8	2680.7	2694.8	2700.2
27.5°	2619.9	2612.3	2592.0	2602.7	2608.3
30°	2555.3	2549.8	2527.4	2535.9	2541.3
32.5°	2488.4	2485.1	2465.0	2469.0	2476.7
35°	2385.3	2379.9	2360.2	2360.5	2371.4
37.5°	2271.0	2265.0	2248.8	2246.0	2250.4
40°	2193.0	2184.8	2170.7	2167.9	2167.9
42.5°	2112.8	2106.8	2088.3	2083.4	2089.9
45°	1989.6	1981.4	1964.5	1964.7	1970.1
47.5°	1856.4	1853.1	1833.5	1824.6	1826.8
50°	1758.3	1763.7	1744.3	1733.5	1744.3
52.5°	1673.6	1670.3	1653.0	1641.9	1646.3
55°	1532.6	1529.9	1513.1	1499.1	1499.1
57.5°	1391.1	1384.0	1366.6	1356.1	1364.3
60°	1293.0	1290.2	1270.6	1251.3	1259.5
62.5°	1194.8	1189.9	1170.3	1157.6	1163.7
65°	1033.9	1033.9	1014.3	1003.1	1000.4
67.5°	892.8	879.8	868.8	855.3	851.6
70°	785.8	774.9	766.3	755.0	746.8
72.5°	681.1	674.5	661.5	650.4	648.7
75°	535.0	524.1	515.5	507.1	504.3
77.5°	380.6	378.5	370.6	366.2	367.8
80°	287.1	287.1	281.4	281.3	278.7
82.5°	202.3	204.5	203.4	199.0	198.4
85°	86.4	91.8	97.5	97.6	100.3
87.5°	15.6	26.5	24.5	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)