

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: P520111

Luminaire Tested: **SQ4-F-0U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520111
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-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

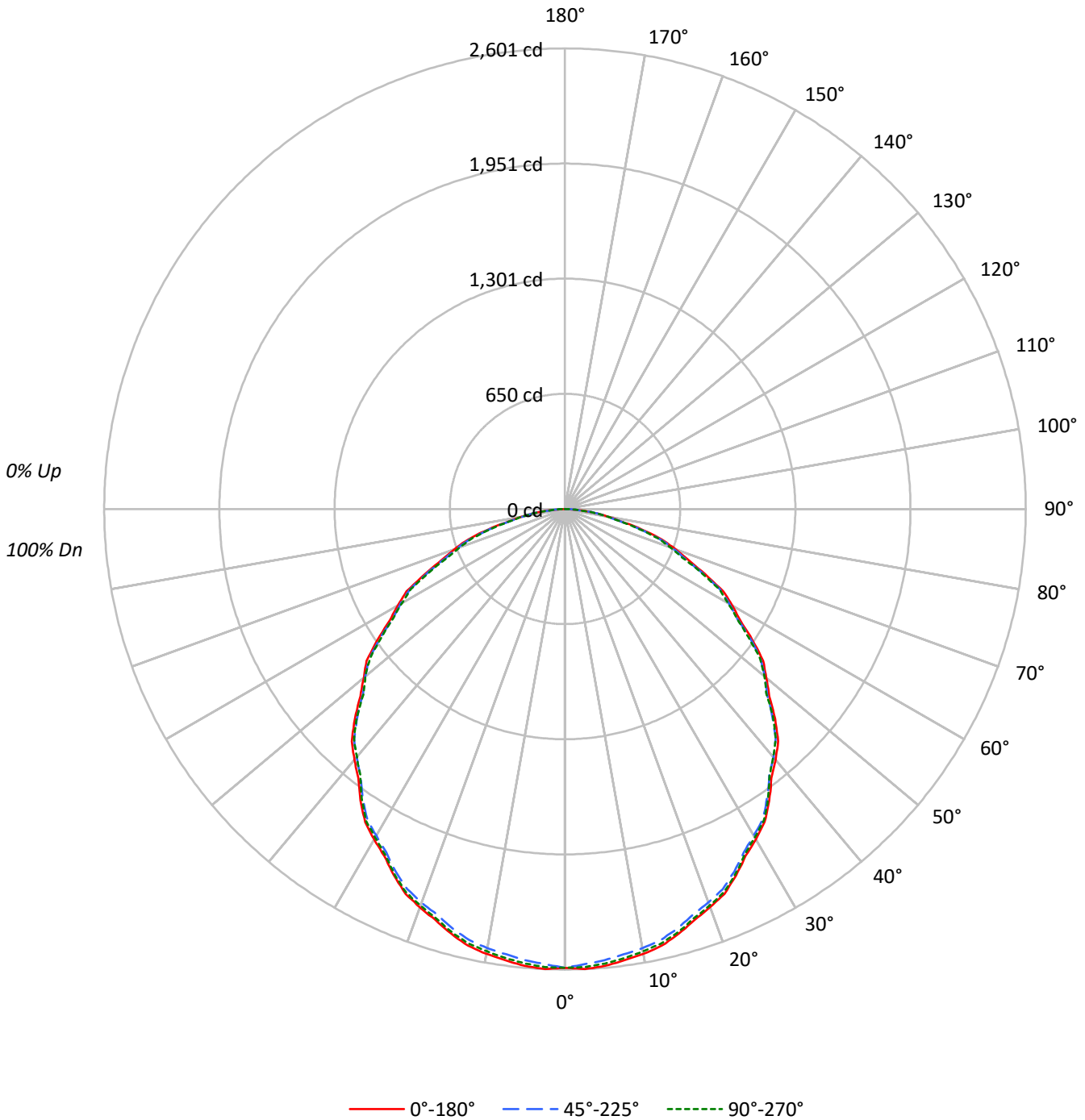
Lumens per Lamp: N/A
Luminaire Lumens: 7073.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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



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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	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°	7969	7969	7969
5°	7999	7898	7956
10°	7967	7865	7923
15°	7906	7809	7876
20°	7834	7742	7804
25°	7748	7669	7725
30°	7650	7567	7608
35°	7550	7470	7506
40°	7423	7347	7338
45°	7295	7203	7224
50°	7093	7036	7036
55°	6928	6840	6776
60°	6704	6589	6531
65°	6343	6223	6137
70°	5957	5809	5661
75°	5360	5164	5052
80°	4286	4203	4160
85°	2569	2904	2982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	3.5
10°-20°	696.3	9.8
20°-30°	1046.1	14.8
30°-40°	1248.2	17.6
40°-50°	1280.1	18.1
50°-60°	1140.7	16.1
60°-70°	850.5	12.0
70°-80°	461.2	6.5
80°-90°	106.0	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°	1987.0	28.1
0°-40°	3235.2	45.7
0°-60°	5656.0	80.0
0°-90°	7073.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7073.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2591	2591	2591	2591	2591	
5°	2591	2587	2558	2579	2577	246
15°	2483	2479	2453	2472	2474	700
25°	2283	2281	2260	2272	2276	1052
35°	2011	2006	1990	1990	1999	1256
45°	1677	1670	1656	1656	1661	1291
55°	1292	1290	1276	1264	1264	1154
65°	872	872	855	846	843	868
75°	451	442	435	428	425	474
85°	73	77	82	82	84	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2591.2	2591.2	2591.2	2591.2	2591.2
2.5°	2600.6	2595.1	2572.4	2591.1	2589.3
5°	2591.2	2586.6	2558.3	2579.4	2577.1
7.5°	2570.1	2565.0	2537.1	2558.3	2557.9
10°	2551.3	2544.4	2518.4	2539.5	2537.1
12.5°	2526.8	2519.9	2493.9	2515.1	2512.7
15°	2483.1	2478.6	2452.6	2471.5	2473.7
17.5°	2433.3	2424.6	2401.4	2419.7	2422.1
20°	2393.8	2386.9	2365.7	2382.1	2384.5
22.5°	2352.5	2345.6	2324.4	2340.8	2343.1
25°	2283.4	2281.2	2260.0	2271.8	2276.4
27.5°	2208.7	2202.3	2185.2	2194.3	2198.9
30°	2154.2	2149.7	2130.8	2137.9	2142.5
32.5°	2097.8	2095.1	2078.1	2081.6	2088.0
35°	2010.9	2006.3	1989.8	1990.0	1999.2
37.5°	1914.6	1909.6	1895.8	1893.5	1897.3
40°	1848.9	1842.0	1830.1	1827.7	1827.7
42.5°	1781.2	1776.1	1760.5	1756.4	1762.0
45°	1677.3	1670.4	1656.2	1656.3	1660.9
47.5°	1565.1	1562.3	1545.8	1538.3	1540.2
50°	1482.4	1486.9	1470.6	1461.4	1470.6
52.5°	1410.9	1408.2	1393.5	1384.3	1387.9
55°	1292.1	1289.8	1275.6	1263.8	1263.8
57.5°	1172.7	1166.8	1152.0	1143.3	1150.2
60°	1090.0	1087.8	1071.2	1054.9	1061.8
62.5°	1007.4	1003.3	986.7	976.0	981.0
65°	871.6	871.6	855.1	845.7	843.3
67.5°	752.7	741.7	732.4	721.1	717.9
70°	662.5	653.3	646.0	636.5	629.6
72.5°	574.1	568.6	557.7	548.3	546.9
75°	451.1	441.8	434.6	427.5	425.2
77.5°	320.9	319.0	312.4	308.7	310.1
80°	242.0	242.0	237.3	237.3	234.9
82.5°	170.5	172.4	171.5	167.7	167.3
85°	72.8	77.4	82.3	82.3	84.5
87.5°	13.2	22.3	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)