

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: P520447

Luminaire Tested: **SQ4-F-150U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520447
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-150U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

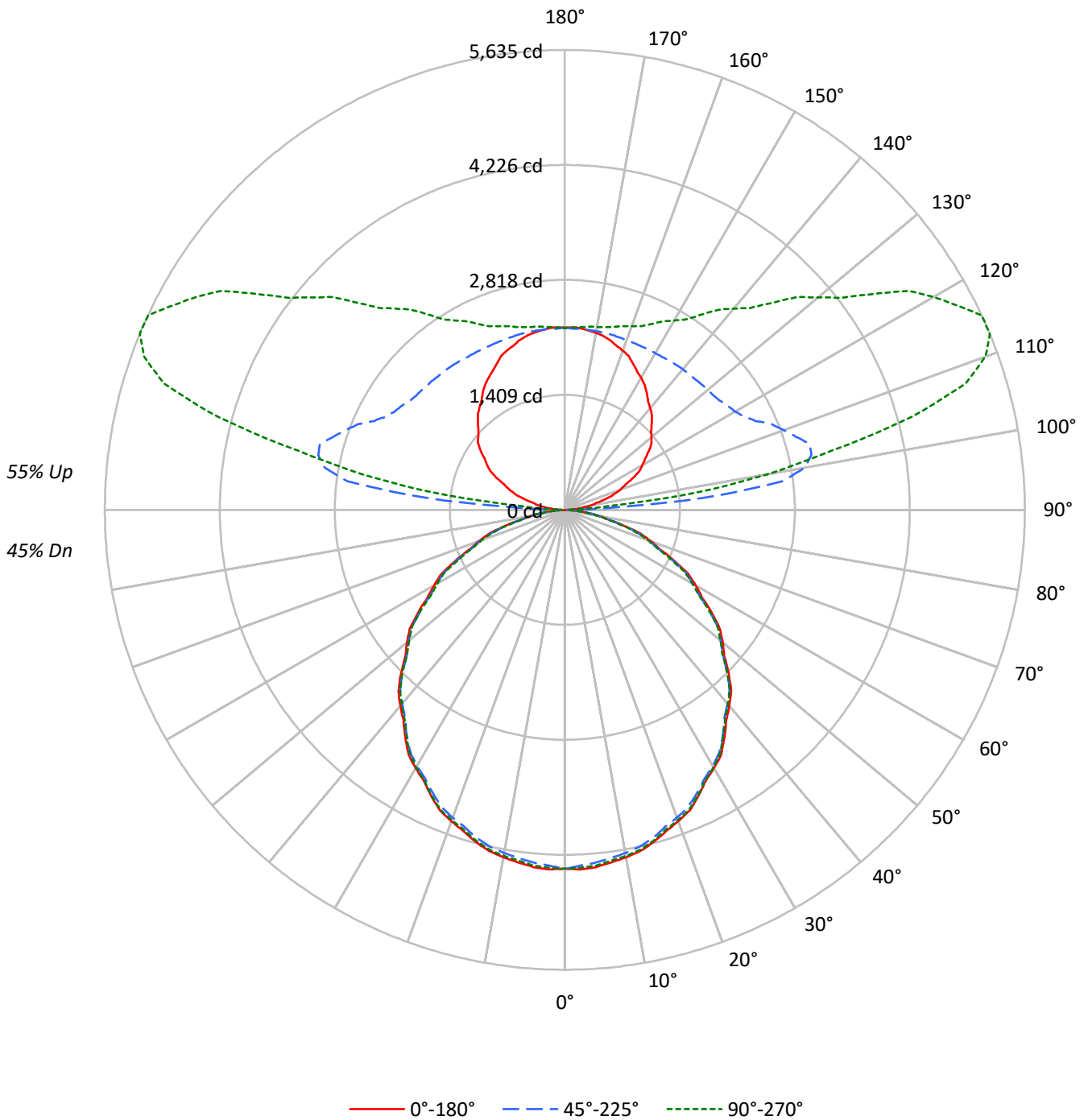
Lumens per Lamp: N/A
Luminaire Lumens: 26379.8 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 260.3
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	31	52	42	35	29	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	27	22	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13565	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12997	13104
30°	12974	12862	12931
35°	12790	12681	12690
40°	12579	12443	12482
45°	12344	12207	12228
50°	12074	11935	11900
55°	11766	11598	11572
60°	11385	11132	11072
65°	10793	10565	10424
70°	10051	9790	9659
75°	8940	8740	8480
80°	7284	7070	7028
85°	4354	4954	4954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.8	1.6
10°-20°	1181.4	4.5
20°-30°	1774.9	6.7
30°-40°	2117.8	8.0
40°-50°	2170.8	8.2
50°-60°	1934.9	7.3
60°-70°	1440.4	5.5
70°-80°	780.3	3.0
80°-90°	183.8	0.7
90°-100°	1036.6	3.9
100°-110°	2802.7	10.6
110°-120°	2946.7	11.2
120°-130°	2393.5	9.1
130°-140°	1877.5	7.1
140°-150°	1441.0	5.5
150°-160°	1036.3	3.9
160°-170°	633.1	2.4
170°-180°	213.4	0.8
0°-30°	3371.1	12.8
0°-40°	5488.9	20.8
0°-60°	9594.5	36.4
0°-90°	11999.0	45.5
90°-120°	6786.0	25.7
90°-150°	12497.9	47.4
90°-180°	14381.0	54.5
0°-180°	26379.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4396	4396	4396	4396	4396	
5°	4394	4387	4338	4377	4374	417
15°	4212	4203	4162	4198	4196	1188
25°	3871	3864	3830	3852	3862	1783
35°	3407	3404	3378	3378	3380	2130
45°	2838	2831	2807	2802	2812	2187
55°	2194	2187	2163	2146	2158	1960
65°	1483	1474	1452	1442	1432	1469
75°	752	752	736	721	714	799
85°	123	140	140	143	140	171
90°	5	14	31	34	31	14
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4399	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2710	2917	1095
155°	1976	2053	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2231	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4396.3	4396.3	4396.3	4396.3	4396.3
2.5°	4409.8	4402.3	4363.4	4396.1	4390.5
5°	4393.9	4386.8	4338.3	4376.9	4374.5
7.5°	4356.6	4347.6	4303.4	4339.6	4335.3
10°	4323.7	4316.6	4270.5	4306.7	4304.3
12.5°	4283.0	4275.9	4229.8	4266.1	4265.6
15°	4212.4	4203.0	4161.6	4197.8	4195.5
17.5°	4127.8	4116.8	4076.0	4104.6	4109.3
20°	4059.9	4052.9	4014.0	4040.7	4045.5
22.5°	3990.3	3981.3	3940.5	3971.1	3975.8
25°	3871.2	3864.1	3830.1	3852.1	3861.6
27.5°	3740.6	3740.6	3709.2	3724.8	3730.5
30°	3653.5	3653.5	3622.0	3631.9	3641.4
32.5°	3560.6	3553.0	3523.3	3531.3	3540.7
35°	3406.7	3404.3	3377.6	3377.8	3380.1
37.5°	3247.5	3240.8	3211.7	3213.9	3225.2
40°	3133.3	3128.5	3099.4	3099.6	3109.1
42.5°	3017.1	3012.4	2987.1	2983.4	2987.1
45°	2838.2	2831.1	2806.6	2802.1	2811.5
47.5°	2647.4	2649.3	2620.3	2613.7	2618.9
50°	2523.6	2523.6	2494.6	2480.2	2487.3
52.5°	2393.9	2390.1	2361.0	2344.9	2361.5
55°	2194.5	2187.4	2163.0	2146.4	2158.2
57.5°	1990.3	1979.4	1955.0	1936.7	1943.3
60°	1851.0	1834.4	1809.8	1795.4	1800.1
62.5°	1705.8	1696.8	1670.5	1648.4	1658.8
65°	1483.2	1473.8	1451.8	1441.8	1432.4
67.5°	1265.0	1258.8	1234.0	1223.6	1217.5
70°	1117.8	1106.0	1088.8	1076.7	1074.2
72.5°	974.6	960.9	943.6	933.3	927.2
75°	752.4	752.4	735.5	720.8	713.7
77.5°	541.0	542.9	529.0	524.0	520.6
80°	411.3	411.3	399.2	394.5	396.8
82.5°	287.4	293.1	288.9	282.1	278.7
85°	123.4	140.0	140.4	142.7	140.4
87.5°	22.3	37.4	43.1	39.6	35.4
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.9	154.1
95°	160.9	564.7	1723.9	892.1	530.7
97.5°	258.3	647.6	2687.2	2223.8	1633.1
100°	331.4	681.2	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.6
107.5°	634.4	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.4	5216.1	5481.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.5	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5418.9
120°	1099.6	1287.5	2408.1	4473.1	5217.2
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.0	2297.3	3661.7	4264.6
130°	1385.3	1570.8	2285.7	3500.9	4045.6
132.5°	1433.3	1616.9	2274.2	3356.0	3857.4
135°	1505.4	1683.8	2261.7	3166.7	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.9	1785.1	2247.3	2914.4	3217.2
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.5	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.5
150°	1867.9	1971.2	2216.1	2550.3	2677.0
152.5°	1914.1	2004.2	2214.2	2498.0	2602.2
155°	1976.0	2053.4	2211.3	2431.6	2511.4
157.5°	2040.3	2094.4	2211.8	2385.3	2437.9
160°	2076.9	2121.4	2213.7	2356.2	2393.7
162.5°	2105.6	2142.8	2215.6	2332.9	2361.0
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.3	2285.8	2291.4
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.6	2262.7
175°	2232.9	2230.6	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.8	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)