

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: P520063

Luminaire Tested: **SQ4-F-075U-125D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520063
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

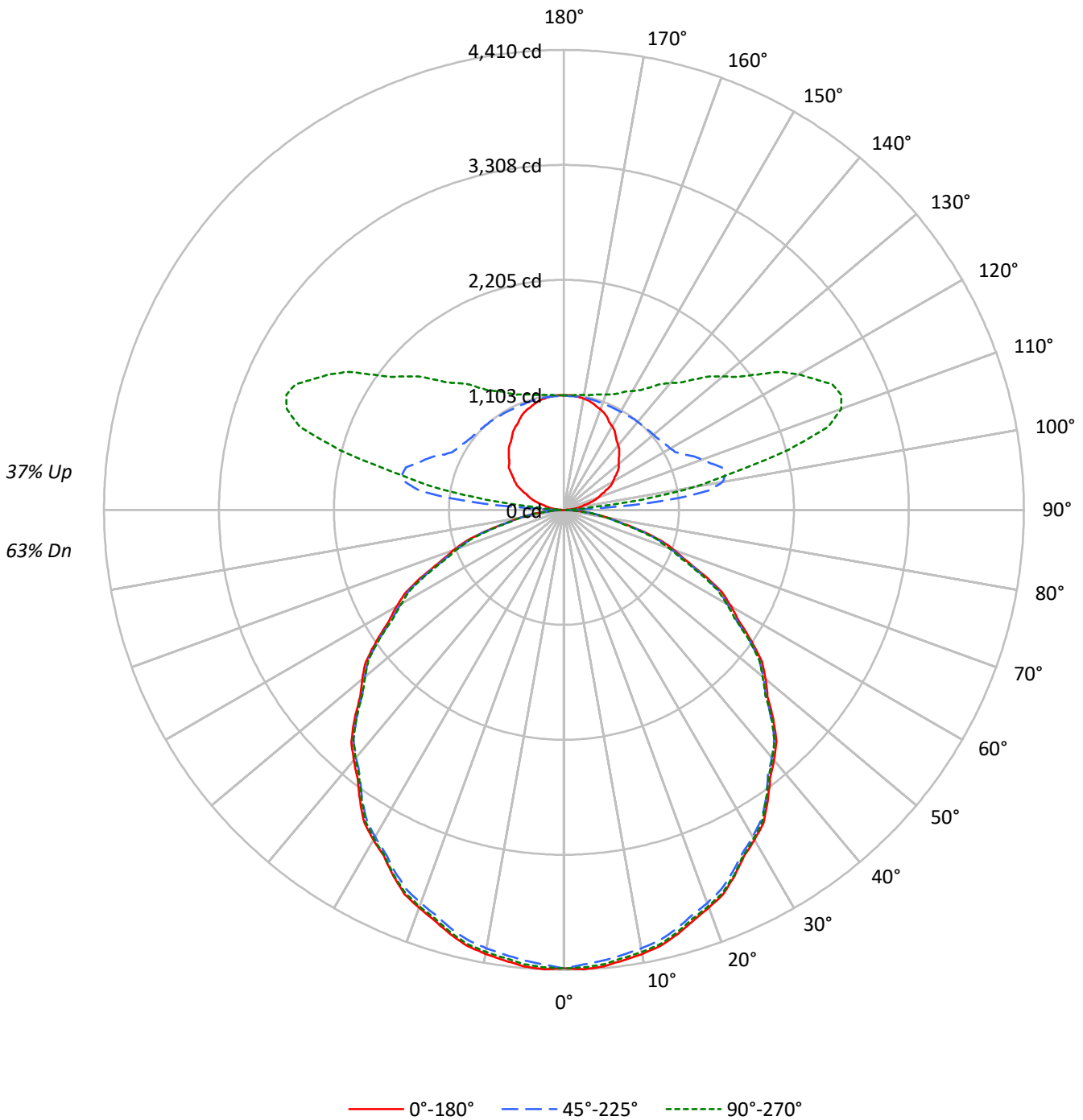
Lumens per Lamp: N/A
Luminaire Lumens: 19144.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 194.1
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

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	2.2
10°-20°	1181.4	6.2
20°-30°	1774.9	9.3
30°-40°	2117.8	11.1
40°-50°	2170.8	11.3
50°-60°	1934.9	10.1
60°-70°	1440.4	7.5
70°-80°	780.3	4.1
80°-90°	182.0	1.0
90°-100°	517.4	2.7
100°-110°	1423.6	7.4
110°-120°	1469.4	7.7
120°-130°	1177.3	6.1
130°-140°	924.7	4.8
140°-150°	708.6	3.7
150°-160°	509.5	2.7
160°-170°	311.5	1.6
170°-180°	105.0	0.5
0°-30°	3371.1	17.6
0°-40°	5488.9	28.7
0°-60°	9594.5	50.1
0°-90°	11997.2	62.7
90°-120°	3410.4	17.8
90°-150°	6220.9	32.5
90°-180°	7147.0	37.3
0°-180°	19144.1	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	170
90°	2	9	16	21	21	8
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1142	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1142	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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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°	21.8	36.5	40.1	37.2	33.3
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.6	238.6	91.6	75.1
95°	77.1	282.5	915.0	391.2	249.7
97.5°	125.6	313.2	1396.3	1075.8	759.1
100°	161.1	332.3	1547.6	1562.1	1274.5
102.5°	194.6	354.9	1586.8	1937.9	1674.1
105°	254.4	391.3	1568.6	2389.0	2229.1
107.5°	311.3	436.4	1479.4	2609.7	2657.3
110°	352.4	466.6	1412.2	2664.7	2829.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1344.9	2629.3	2879.5
115°	450.5	548.6	1258.2	2505.3	2843.0
117.5°	508.4	598.8	1203.1	2331.2	2713.3
120°	543.8	630.6	1178.7	2200.8	2595.6
122.5°	575.6	662.4	1162.0	2086.4	2461.1
125°	620.9	707.7	1141.5	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.2	770.7	1120.4	1723.9	1988.7
132.5°	712.4	796.9	1114.8	1656.2	1895.4
135°	749.2	831.4	1108.7	1561.6	1767.0
137.5°	783.9	860.1	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.8	1434.3	1587.3
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.4	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.9
150°	924.3	970.0	1087.8	1250.2	1314.1
152.5°	944.9	986.8	1085.9	1225.7	1278.7
155°	980.4	1012.4	1085.4	1195.8	1230.1
157.5°	1006.0	1032.0	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.6	1087.3	1146.8	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.5
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)