

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: P520336

Luminaire Tested: **SQ4-F-125U-100D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520336
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

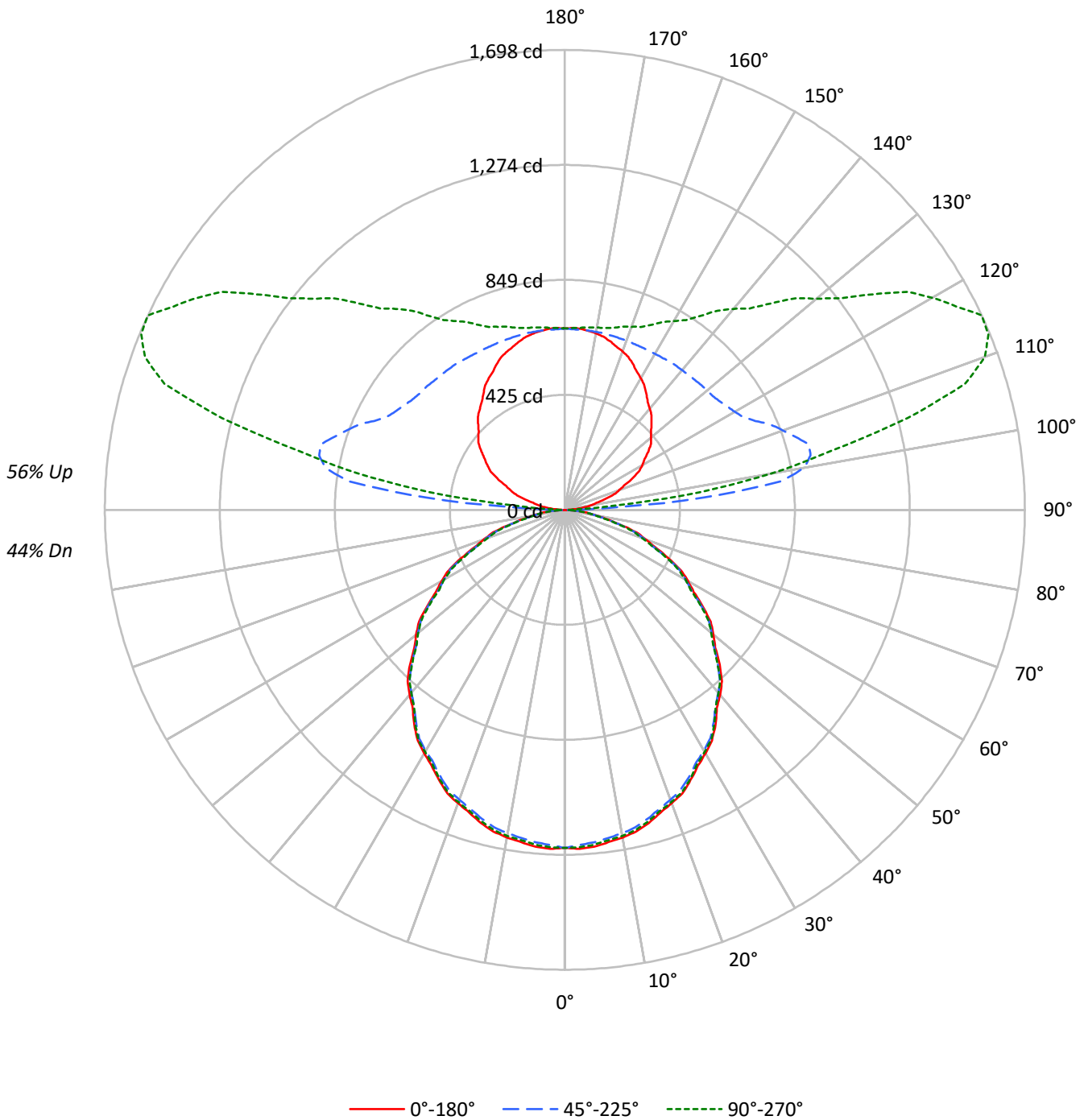
Lumens per Lamp: N/A
Luminaire Lumens: 7727.2 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36	31
3	80	71	63	57	73	65	59	53	54	49	45	44	41	38	35	32	30	26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	33	38	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	30	24	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11513	11513	11513
5°	11566	11407	11494
10°	11507	11363	11451
15°	11437	11282	11372
20°	11320	11185	11278
25°	11196	11065	11153
30°	11060	10941	10995
35°	10921	10786	10844
40°	10738	10616	10625
45°	10550	10404	10370
50°	10278	10155	10131
55°	9976	9865	9796
60°	9673	9499	9466
65°	9200	8994	8920
70°	8551	8341	8179
75°	7632	7390	7236
80°	6280	6052	5781
85°	3716	4076	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.5
10°-20°	335.4	4.3
20°-30°	503.7	6.5
30°-40°	601.1	7.8
40°-50°	616.2	8.0
50°-60°	548.7	7.1
60°-70°	409.0	5.3
70°-80°	221.5	2.9
80°-90°	52.0	0.7
90°-100°	313.2	4.1
100°-110°	843.6	10.9
110°-120°	885.4	11.5
120°-130°	718.5	9.3
130°-140°	563.5	7.3
140°-150°	432.6	5.6
150°-160°	311.0	4.0
160°-170°	190.0	2.5
170°-180°	64.1	0.8
0°-30°	956.9	12.4
0°-40°	1558.1	20.2
0°-60°	2722.9	35.2
0°-90°	3405.4	44.1
90°-120°	2042.2	26.4
90°-150°	3756.7	48.6
90°-180°	4322.0	55.9
0°-180°	7727.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1249	1246	1232	1243	1241	118
15°	1197	1193	1181	1191	1191	337
25°	1100	1097	1087	1093	1096	507
35°	970	966	958	959	963	605
45°	809	804	797	793	795	622
55°	620	621	613	607	609	555
65°	421	420	412	408	409	417
75°	214	212	207	203	203	228
85°	35	38	38	39	39	49
90°	2	5	10	11	11	4
95°	48	170	513	263	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.9	1247.9	1247.9	1247.9	1247.9
2.5°	1252.8	1250.1	1239.1	1247.9	1246.7
5°	1248.8	1246.4	1231.7	1242.8	1241.1
7.5°	1237.2	1234.7	1221.8	1232.0	1230.5
10°	1228.3	1225.7	1212.9	1223.2	1222.3
12.5°	1216.6	1214.2	1201.2	1211.5	1210.7
15°	1197.4	1193.2	1181.2	1190.6	1190.6
17.5°	1172.1	1168.9	1157.7	1165.6	1165.8
20°	1152.9	1150.4	1139.2	1147.8	1148.7
22.5°	1133.7	1131.2	1118.6	1126.6	1128.1
25°	1099.8	1097.3	1086.9	1093.0	1095.6
27.5°	1064.8	1061.2	1051.0	1056.3	1058.2
30°	1038.2	1036.5	1027.0	1029.7	1032.1
32.5°	1010.0	1008.4	1000.2	1001.6	1006.1
35°	969.6	965.5	957.6	959.4	962.8
37.5°	921.9	919.8	912.3	911.3	914.4
40°	891.6	888.3	881.4	879.8	882.2
42.5°	858.7	855.4	847.2	845.5	848.6
45°	808.6	804.3	797.4	793.2	794.8
47.5°	752.4	752.4	745.2	740.2	742.8
50°	716.1	716.1	707.5	703.3	705.8
52.5°	678.4	679.0	669.8	667.6	666.7
55°	620.2	620.9	613.3	607.4	609.0
57.5°	564.0	562.1	553.2	549.2	550.1
60°	524.2	521.7	514.8	508.9	513.0
62.5°	483.8	482.6	475.7	469.1	468.6
65°	421.4	419.7	412.0	407.7	408.6
67.5°	359.4	357.4	350.4	344.2	346.4
70°	317.0	317.0	309.2	305.8	303.2
72.5°	277.8	274.6	268.8	264.0	262.1
75°	214.1	211.6	207.3	203.0	203.0
77.5°	155.9	153.7	150.9	148.0	147.1
80°	118.2	117.4	113.9	113.0	108.8
82.5°	83.2	83.1	81.0	78.8	78.7
85°	35.1	38.4	38.5	39.4	39.4
87.5°	6.5	11.2	11.7	10.4	10.4
90°	1.7	5.0	10.3	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.6	181.7
97.5°	76.3	195.0	805.3	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.7	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1310.0
107.5°	190.8	268.3	893.3	1527.5	1549.7
110°	214.0	287.4	857.1	1568.5	1649.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.3
115°	275.5	337.2	776.9	1501.2	1697.9
117.5°	309.0	367.0	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.5
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.3	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.2	1006.5	1156.6
135°	452.8	505.4	678.0	951.2	1077.1
137.5°	473.5	523.8	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.9
142.5°	502.8	547.8	672.3	848.5	927.2
145°	523.7	564.5	669.5	813.3	873.3
147.5°	546.1	581.7	666.5	783.7	830.8
150°	561.1	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.6	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.1
157.5°	611.7	628.5	663.7	715.6	731.3
160°	622.5	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.0	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.8	671.6
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)