

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: P520377

Luminaire Tested: **SQ4-F-150U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520377
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-150U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

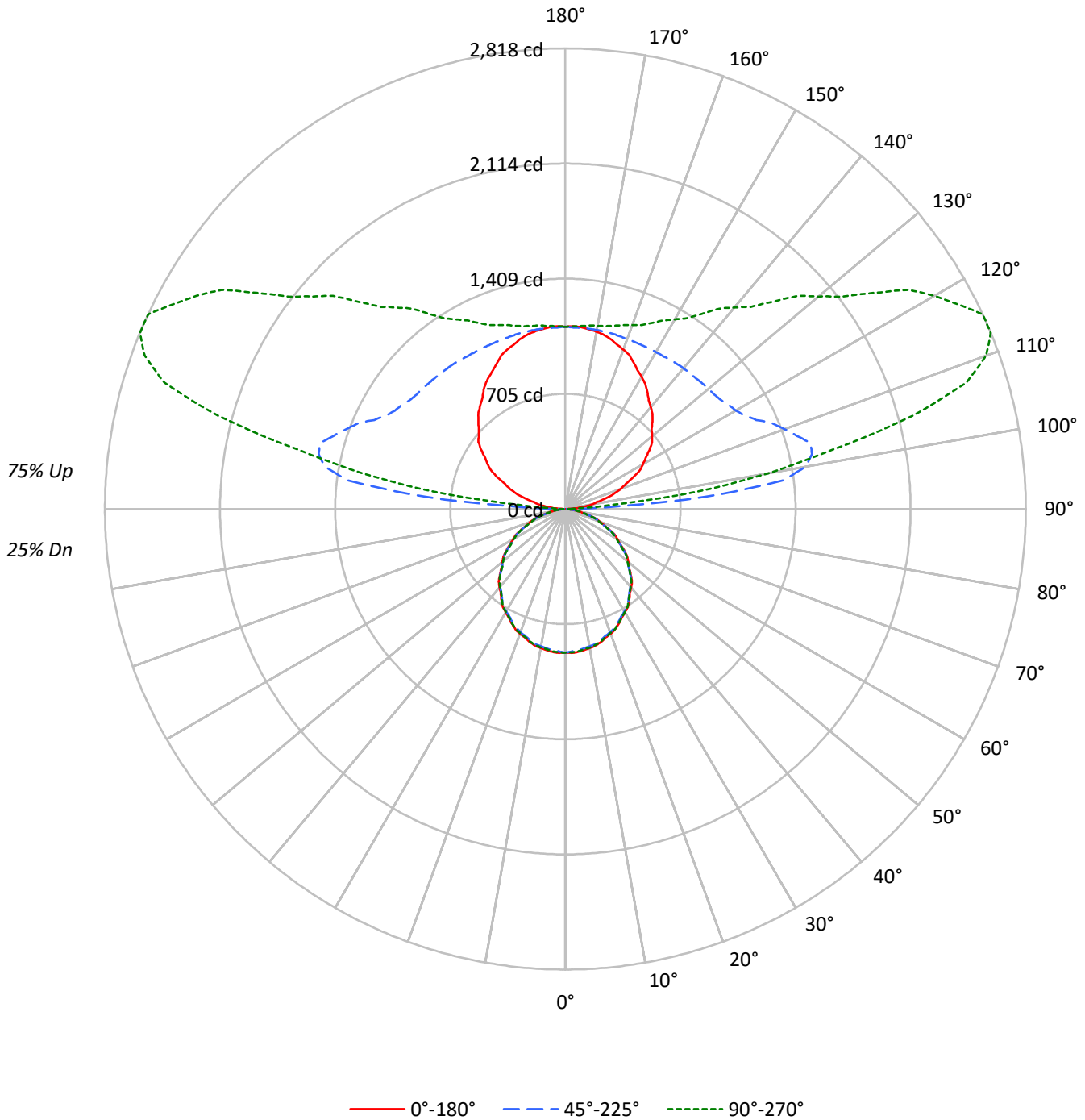
Lumens per Lamp: N/A
Luminaire Lumens: 9592.4 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.4
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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	92	88	84	81	82	79	75	73	61	59	57	44	43	42	29	29	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	25	23	18
3	76	67	60	55	68	60	54	49	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	18	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5408	5408	5408
5°	5421	5356	5399
10°	5403	5337	5373
15°	5366	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5183	5141	5175
35°	5125	5065	5090
40°	5027	4980	4989
45°	4924	4884	4884
50°	4821	4775	4753
55°	4708	4645	4620
60°	4532	4459	4431
65°	4317	4231	4178
70°	4021	3937	3852
75°	3610	3496	3413
80°	2919	2880	2795
85°	1750	1990	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	0.9
10°-20°	236.2	2.5
20°-30°	354.8	3.7
30°-40°	423.5	4.4
40°-50°	434.0	4.5
50°-60°	387.1	4.0
60°-70°	288.3	3.0
70°-80°	156.5	1.6
80°-90°	38.6	0.4
90°-100°	518.3	5.4
100°-110°	1401.4	14.6
110°-120°	1473.3	15.4
120°-130°	1196.7	12.5
130°-140°	938.8	9.8
140°-150°	720.5	7.5
150°-160°	518.2	5.4
160°-170°	316.5	3.3
170°-180°	106.7	1.1
0°-30°	674.0	7.0
0°-40°	1097.5	11.4
0°-60°	1918.6	20.0
0°-90°	2402.0	25.0
90°-120°	3393.0	35.4
90°-150°	6249.0	65.1
90°-180°	7190.0	75.0
0°-180°	9592.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	878	877	867	876	874	83
15°	843	840	832	839	839	237
25°	774	772	765	770	772	357
35°	683	680	674	674	678	426
45°	566	567	562	560	562	437
55°	439	439	433	430	431	391
65°	297	295	291	287	287	294
75°	152	151	147	145	144	160
85°	25	27	28	29	29	35
90°	2	7	16	17	16	6
95°	80	282	862	446	265	84
105°	261	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.2	879.2	879.2	879.2	879.2
2.5°	882.0	880.2	872.7	879.2	878.3
5°	878.0	876.9	867.4	875.6	874.5
7.5°	871.7	869.4	860.1	868.1	866.9
10°	865.1	862.8	854.5	861.5	860.3
12.5°	856.6	855.2	846.0	853.0	852.8
15°	842.7	840.4	832.1	839.2	839.2
17.5°	824.3	823.0	815.0	821.8	820.8
20°	812.1	809.8	802.7	808.6	808.6
22.5°	797.0	795.6	788.5	793.6	794.5
25°	774.4	772.2	765.1	769.8	772.1
27.5°	749.5	747.6	741.7	744.9	746.4
30°	729.8	729.8	723.9	725.1	728.6
32.5°	711.8	711.8	705.0	706.2	707.8
35°	682.6	680.4	674.5	674.5	677.9
37.5°	648.7	647.6	643.8	643.1	644.1
40°	626.1	625.0	620.2	621.4	621.4
42.5°	603.6	602.4	597.6	596.1	597.9
45°	566.1	567.3	561.5	560.3	561.5
47.5°	529.2	529.2	524.5	521.2	523.0
50°	503.8	503.8	499.0	496.7	496.7
52.5°	477.4	478.3	472.7	469.4	470.3
55°	439.0	439.0	433.2	429.6	430.8
57.5°	396.7	396.7	390.8	387.3	389.4
60°	368.4	368.4	362.5	359.0	360.2
62.5°	340.2	340.2	334.3	330.7	330.9
65°	296.6	295.4	290.7	287.1	287.1
67.5°	254.7	251.7	248.1	243.4	243.4
70°	223.6	222.5	218.9	214.2	214.2
72.5°	195.3	193.3	189.7	186.0	186.0
75°	151.9	150.7	147.1	144.8	143.6
77.5°	108.8	107.9	107.6	104.3	105.2
80°	82.4	82.4	81.3	78.9	78.9
82.5°	58.9	59.8	57.7	57.2	56.3
85°	24.8	27.0	28.2	29.4	29.4
87.5°	5.2	8.9	9.7	10.8	10.6
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.2	106.4	77.1
95°	80.5	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.5	1493.4	1557.5	1259.3
102.5°	199.3	363.9	1546.2	1895.3	1672.3
105°	260.6	402.5	1554.7	2293.1	2199.3
107.5°	317.2	446.8	1486.6	2541.4	2572.6
110°	361.4	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.5	1370.5	2594.7	2817.6
115°	458.6	560.7	1289.3	2495.9	2817.6
117.5°	515.3	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.0	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.7	1676.8
140°	813.9	892.6	1123.7	1457.2	1608.7
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.3	1110.0	1303.4	1382.7
150°	934.0	985.7	1108.0	1275.2	1338.6
152.5°	957.0	1002.1	1107.1	1248.9	1301.0
155°	988.0	1026.7	1105.7	1215.8	1255.7
157.5°	1020.2	1047.1	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.9	1178.1	1196.9
162.5°	1052.9	1071.4	1107.8	1166.4	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.9	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.2	1131.3
175°	1116.4	1115.2	1111.6	1126.0	1123.7
177.5°	1119.1	1116.2	1111.4	1121.0	1118.2
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)