

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P844965

Luminaire Tested: **SQ4P-F-150U-050D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844965
REPORT IS A COMBINATION OF REPORTS P700135 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-150U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

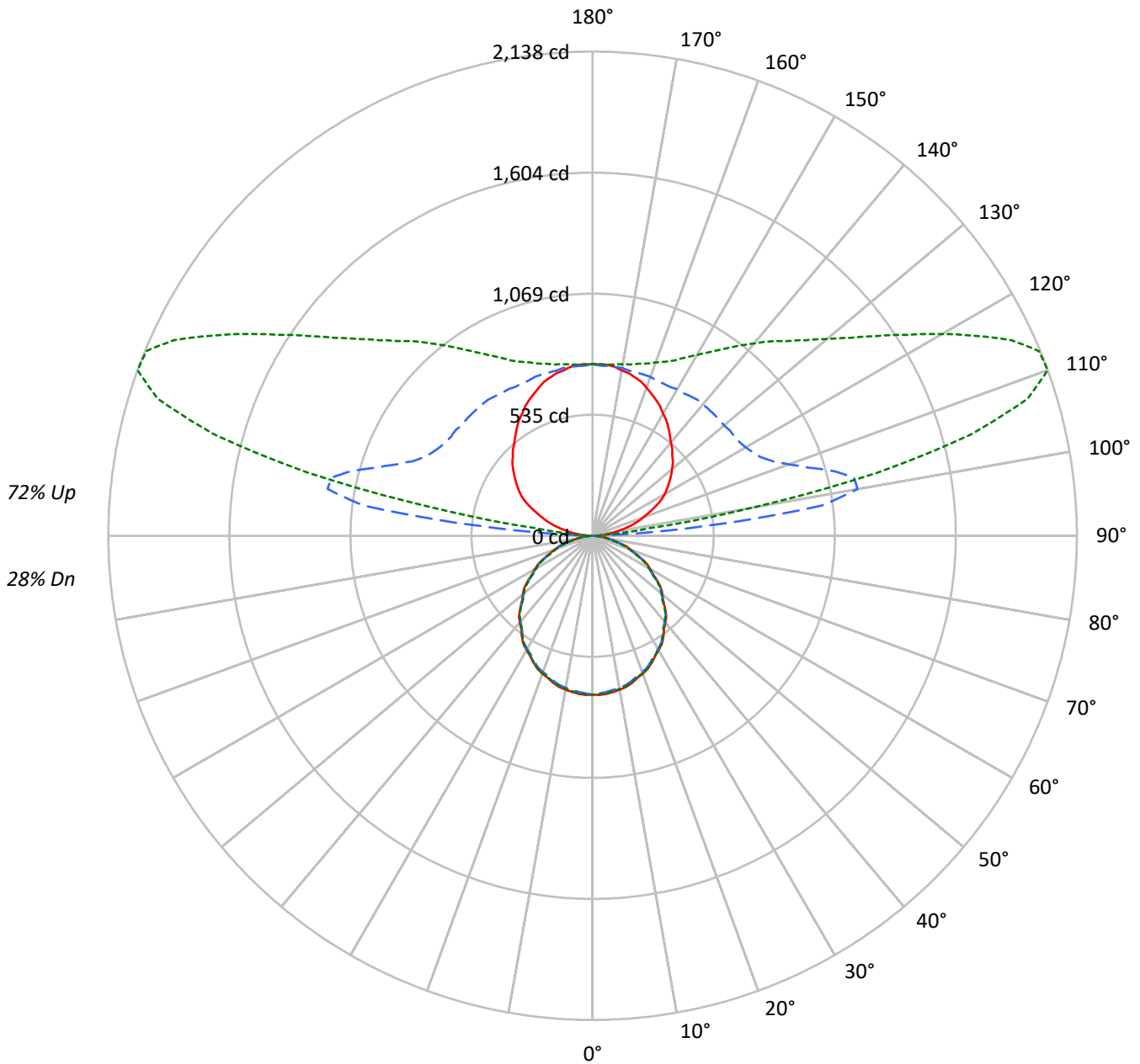
Lumens per Lamp: N/A
Luminaire Lumens: 6835.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28																			
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	32	31	30	24																			
2	84	77	71	66	75	69	64	60	54	51	48	41	38	36	28	27	25	20																			
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17																			
4	70	60	52	46	63	54	47	42	42	38	34	32	29	26	22	20	18	14																			
5	64	53	45	40	57	48	41	36	38	33	29	28	25	23	20	18	16	12																			
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11																			
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	10																			
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	8																			
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	12	10	8																			
10	44	32	25	20	39	29	23	19	23	19	15	18	15	12	13	11	9	7																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6473	6473	6473
5°	6489	6412	6463
10°	6467	6387	6432
15°	6423	6342	6397
20°	6362	6290	6335
25°	6291	6215	6273
30°	6204	6153	6193
35°	6136	6062	6093
40°	6018	5961	5974
45°	5895	5845	5845
50°	5770	5717	5688
55°	5635	5561	5529
60°	5425	5338	5303
65°	5165	5065	5001
70°	4815	4710	4610
75°	4317	4189	4082
80°	3496	3448	3342
85°	2075	2392	2488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.0
10°-20°	188.5	2.8
20°-30°	283.1	4.1
30°-40°	338.0	4.9
40°-50°	346.3	5.1
50°-60°	308.9	4.5
60°-70°	230.0	3.4
70°-80°	124.9	1.8
80°-90°	30.8	0.4
90°-100°	301.6	4.4
100°-110°	1049.5	15.4
110°-120°	1016.6	14.9
120°-130°	797.5	11.7
130°-140°	631.2	9.2
140°-150°	487.1	7.1
150°-160°	349.2	5.1
160°-170°	213.6	3.1
170°-180°	72.2	1.1
0°-30°	537.8	7.9
0°-40°	875.8	12.8
0°-60°	1531.1	22.4
0°-90°	1916.7	28.0
90°-120°	2367.8	34.6
90°-150°	4283.6	62.7
90°-180°	4919.0	72.0
0°-180°	6835.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	701	700	692	699	698	67
15°	672	671	664	670	670	189
25°	618	616	610	614	616	285
35°	545	543	538	538	541	340
45°	452	453	448	447	448	349
55°	350	350	346	343	344	312
65°	237	236	232	229	229	234
75°	121	120	118	116	114	128
85°	20	22	23	24	24	28
90°	11	17	17	11	6	8
95°	51	175	509	130	79	54
105°	175	249	1103	1861	1731	184
115°	305	368	820	1731	2042	302
125°	413	509	764	1290	1538	370
135°	498	560	758	1075	1216	386
145°	583	622	752	928	1007	364
155°	662	684	741	826	854	305
165°	724	730	747	780	786	204
175°	758	758	752	764	758	72
180°	758	758	758	758	758	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.6	701.6	701.6	701.6	701.6
2.5°	703.7	702.4	696.3	701.6	700.9
5°	700.7	699.8	692.3	698.7	697.8
7.5°	695.6	693.8	686.4	692.8	691.8
10°	690.3	688.4	681.8	687.5	686.6
12.5°	683.6	682.5	675.1	680.8	680.6
15°	672.4	670.6	664.0	669.7	669.7
17.5°	657.8	656.7	650.2	655.7	655.1
20°	648.0	646.3	640.6	645.2	645.2
22.5°	636.0	634.9	629.3	633.2	634.0
25°	618.0	616.2	610.5	614.3	616.2
27.5°	598.1	596.7	592.0	594.3	595.7
30°	582.3	582.3	577.6	578.6	581.3
32.5°	568.1	568.1	562.5	563.6	564.9
35°	544.8	543.0	538.2	538.2	541.0
37.5°	517.7	516.8	513.8	513.2	514.0
40°	499.7	498.8	494.9	496.0	496.0
42.5°	481.7	480.7	476.9	475.6	477.1
45°	451.8	452.7	448.0	447.0	448.0
47.5°	422.4	422.4	418.5	415.9	417.4
50°	402.0	402.0	398.3	396.3	396.3
52.5°	380.9	381.7	377.1	374.5	375.3
55°	350.3	350.3	345.7	342.9	343.7
57.5°	316.5	316.5	311.8	309.0	310.7
60°	294.0	294.0	289.3	286.5	287.4
62.5°	271.4	271.4	266.8	264.0	264.1
65°	236.6	235.8	232.0	229.1	229.1
67.5°	203.2	200.8	198.0	194.3	194.3
70°	178.5	177.4	174.6	170.9	170.9
72.5°	155.9	154.3	151.4	148.5	148.5
75°	121.1	120.2	117.5	115.5	114.5
77.5°	86.8	86.1	85.9	83.2	84.0
80°	65.8	65.8	64.9	62.9	62.9
82.5°	46.9	47.7	46.0	45.6	44.9
85°	19.6	21.5	22.6	23.5	23.5
87.5°	3.9	5.9	5.2	6.0	6.0
90°	11.3	17.0	17.0	11.3	5.6
92.5°	28.3	84.8	79.2	33.9	28.3
95°	50.9	175.3	509.0	130.0	79.2
97.5°	79.2	198.0	1018.1	463.8	248.9
100°	107.5	209.2	1187.8	1114.2	718.3
102.5°	141.4	226.3	1182.1	1566.7	1289.5
105°	175.3	248.9	1102.9	1860.8	1730.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.4	333.7	859.7	1872.1	2132.2
115°	305.4	367.7	820.1	1730.7	2041.8
117.5°	339.4	407.2	797.4	1600.6	1911.7
120°	367.7	441.1	780.5	1476.2	1781.6
122.5°	390.2	475.1	769.2	1374.4	1651.5
125°	412.9	509.0	763.5	1289.5	1538.4
127.5°	435.5	531.6	763.5	1227.3	1436.6
130°	458.2	543.0	757.9	1165.1	1351.7
132.5°	480.8	548.6	757.9	1119.8	1278.2
135°	497.7	559.9	757.9	1074.6	1216.0
137.5°	520.4	571.3	757.9	1035.1	1165.1
140°	537.3	588.2	757.9	995.4	1108.5
142.5°	559.9	605.2	757.9	955.9	1057.6
145°	582.6	622.1	752.2	927.6	1006.8
147.5°	605.2	639.1	746.6	899.3	961.5
150°	622.1	656.1	746.6	871.0	921.9
152.5°	644.8	673.0	740.9	842.7	888.0
155°	661.8	684.4	740.9	825.7	854.0
157.5°	678.7	701.3	740.9	808.8	831.5
160°	695.7	712.6	746.6	797.4	814.4
162.5°	712.6	724.0	746.6	786.2	797.4
165°	724.0	729.6	746.6	780.5	786.2
167.5°	735.2	740.9	746.6	774.9	774.9
170°	740.9	746.6	752.2	769.2	769.2
172.5°	752.2	752.2	752.2	763.5	763.5
175°	757.9	757.9	752.2	763.5	757.9
177.5°	757.9	757.9	752.2	763.5	757.9
180°	757.9	757.9	757.9	757.9	757.9



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	209.2	277.2	1001.1	1990.8	2013.5
110°	237.5	305.4	921.9	1973.9	2137.9



(END OF REPORT)