

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: P844964

Luminaire Tested: **SQ4P-F-150U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844964
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

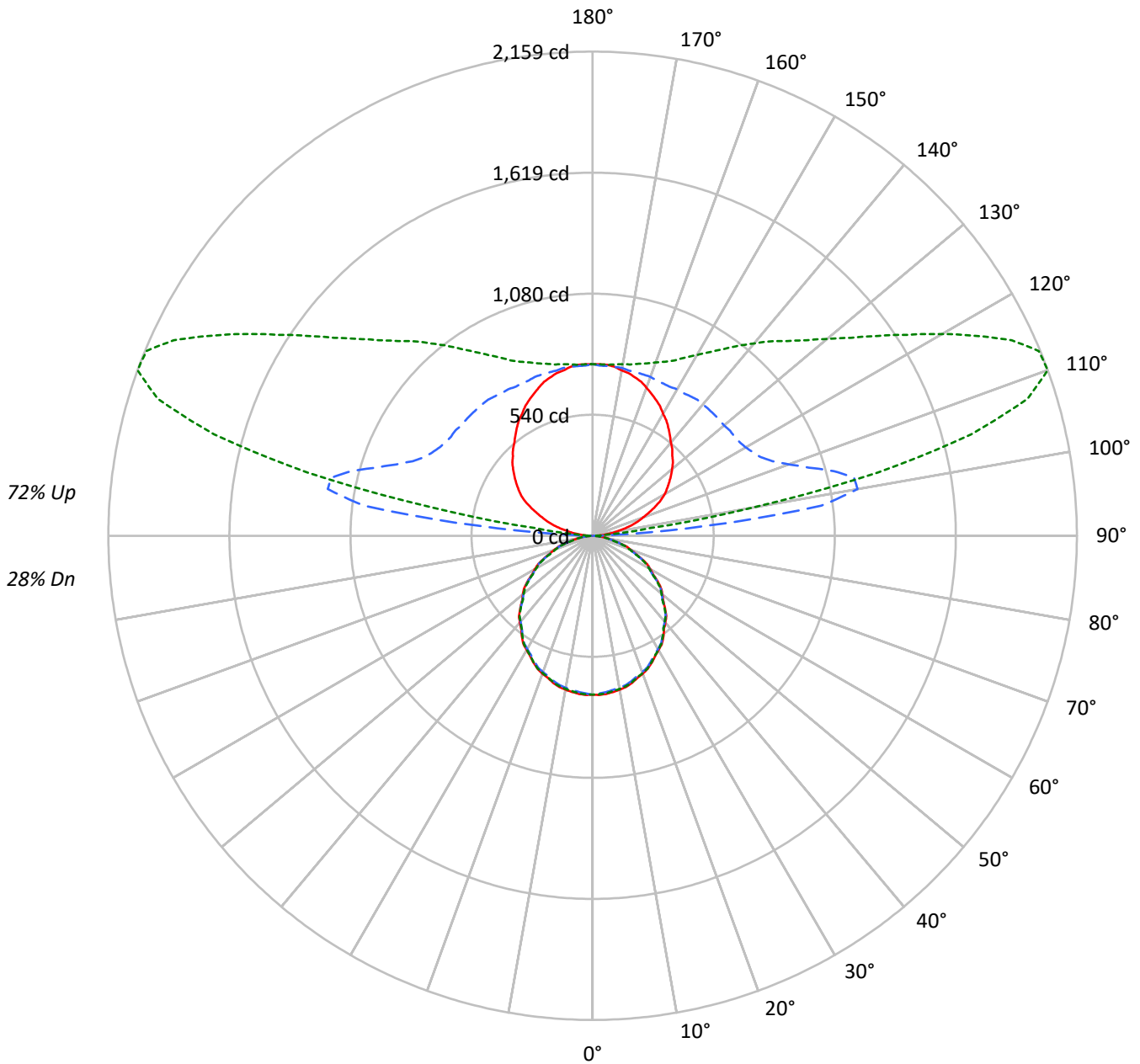
Lumens per Lamp: N/A
Luminaire Lumens: 6902.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	6537	6537	6537
5°	6553	6475	6527
10°	6530	6450	6495
15°	6486	6404	6460
20°	6425	6350	6397
25°	6352	6276	6335
30°	6264	6213	6254
35°	6196	6122	6153
40°	6077	6020	6032
45°	5952	5903	5903
50°	5826	5773	5744
55°	5691	5615	5583
60°	5479	5390	5355
65°	5218	5115	5050
70°	4864	4756	4656
75°	4360	4228	4124
80°	3528	3485	3374
85°	2096	2414	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.0
10°-20°	190.4	2.8
20°-30°	285.9	4.1
30°-40°	341.3	4.9
40°-50°	349.7	5.1
50°-60°	311.9	4.5
60°-70°	232.3	3.4
70°-80°	126.1	1.8
80°-90°	31.1	0.4
90°-100°	304.6	4.4
100°-110°	1059.8	15.4
110°-120°	1026.6	14.9
120°-130°	805.3	11.7
130°-140°	637.4	9.2
140°-150°	491.9	7.1
150°-160°	352.6	5.1
160°-170°	215.7	3.1
170°-180°	73.0	1.1
0°-30°	543.1	7.9
0°-40°	884.4	12.8
0°-60°	1546.1	22.4
0°-90°	1935.5	28.0
90°-120°	2391.0	34.6
90°-150°	4325.6	62.7
90°-180°	4967.0	72.0
0°-180°	6902.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	708	707	699	706	705	67
15°	679	677	670	676	676	191
25°	624	622	616	620	622	287
35°	550	548	544	544	546	343
45°	456	457	452	451	452	352
55°	354	354	349	346	347	315
65°	239	238	234	231	231	237
75°	122	121	119	117	116	129
85°	20	22	23	24	24	28
90°	11	17	17	11	6	8
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.5	708.5	708.5	708.5	708.5
2.5°	710.6	709.3	703.1	708.5	707.8
5°	707.6	706.6	699.1	705.5	704.7
7.5°	702.4	700.6	693.1	699.6	698.6
10°	697.0	695.2	688.5	694.2	693.3
12.5°	690.3	689.2	681.8	687.4	687.2
15°	679.0	677.2	670.5	676.3	676.3
17.5°	664.3	663.2	656.6	662.1	661.5
20°	654.4	652.6	646.8	651.5	651.5
22.5°	642.2	641.2	635.5	639.4	640.2
25°	624.0	622.3	616.5	620.3	622.3
27.5°	604.0	602.5	597.8	600.2	601.5
30°	588.0	588.0	583.2	584.3	587.0
32.5°	573.6	573.6	568.1	569.1	570.4
35°	550.1	548.3	543.5	543.5	546.3
37.5°	522.8	521.9	518.8	518.2	519.0
40°	504.6	503.7	499.8	500.8	500.8
42.5°	486.4	485.4	481.6	480.3	481.7
45°	456.2	457.2	452.4	451.4	452.4
47.5°	426.6	426.6	422.6	420.0	421.5
50°	405.9	405.9	402.2	400.2	400.2
52.5°	384.7	385.5	380.8	378.2	379.0
55°	353.8	353.8	349.1	346.2	347.1
57.5°	319.6	319.6	314.9	312.1	313.7
60°	296.9	296.9	292.1	289.3	290.2
62.5°	274.1	274.1	269.4	266.6	266.7
65°	239.0	238.1	234.3	231.3	231.3
67.5°	205.2	202.8	199.9	196.2	196.2
70°	180.3	179.2	176.3	172.6	172.6
72.5°	157.5	155.8	152.9	149.9	149.9
75°	122.3	121.3	118.6	116.6	115.7
77.5°	87.7	86.9	86.7	84.1	84.8
80°	66.4	66.4	65.6	63.5	63.5
82.5°	47.4	48.1	46.5	46.1	45.3
85°	19.8	21.7	22.8	23.7	23.7
87.5°	3.9	6.0	5.3	6.1	6.1
90°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)