

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: P844919

Luminaire Tested: **SQ4P-F-075U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844919
REPORT IS A COMBINATION OF REPORTS P700220 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-075U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

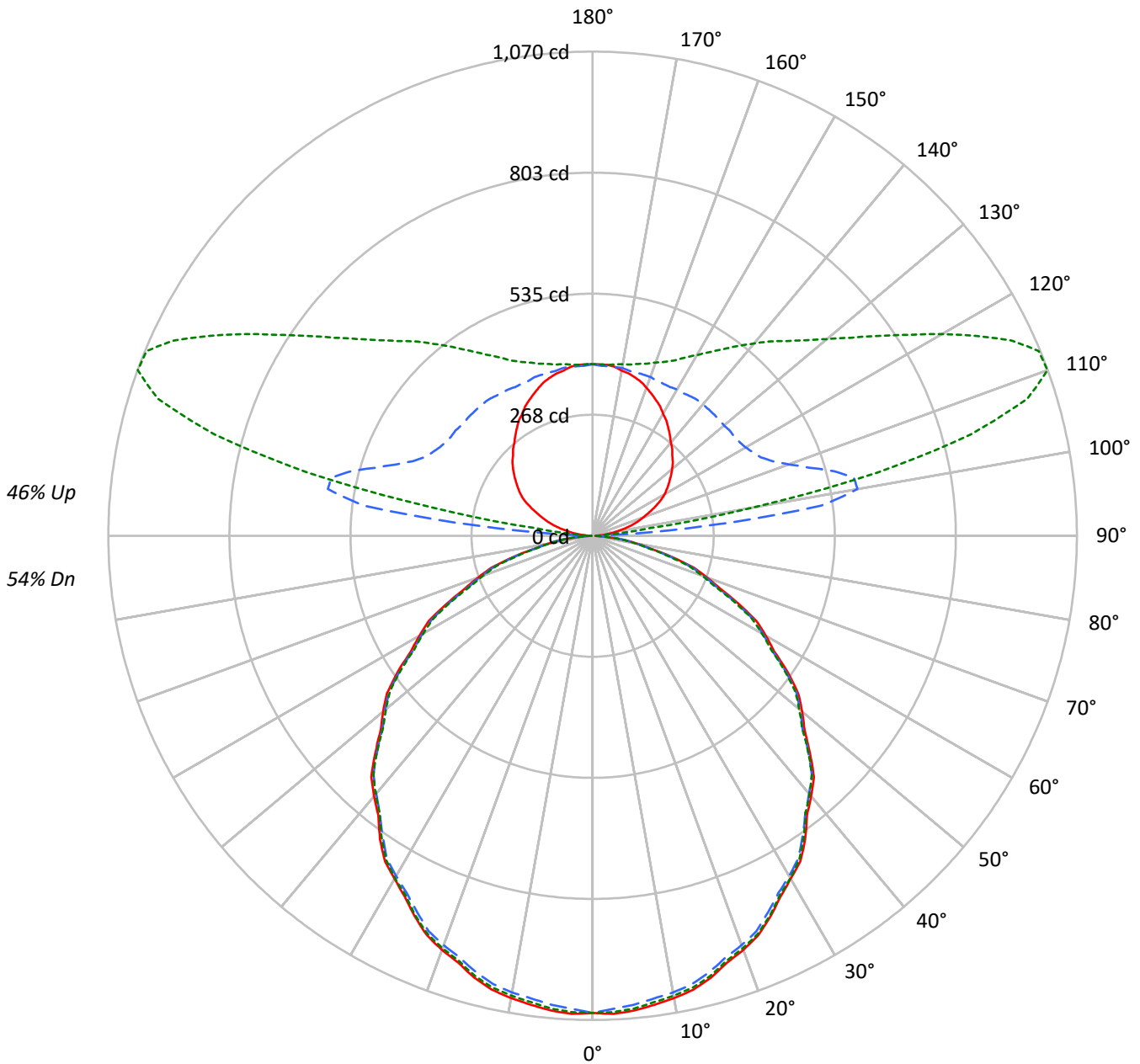
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5339.3 lumens
Efficiency: N/A
Efficacy: 119.7 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): 44.6
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54																			
1	99	94	90	87	91	88	84	81	75	72	70	63	62	60	53	52	50	45																			
2	90	82	76	71	83	76	71	66	66	62	58	56	53	50	46	44	42	38																			
3	82	72	65	59	76	67	61	55	58	53	49	49	45	42	41	38	36	32																			
4	75	64	56	50	69	59	52	47	51	46	41	44	39	36	37	33	31	27																			
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	24																			
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	24	21																			
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	24	21	18																			
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16																			
9	50	38	31	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15																			
10	47	35	28	23	44	33	26	22	29	23	20	25	21	17	21	18	15	13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9728	9728	9728
5°	9753	9636	9713
10°	9720	9601	9667
15°	9654	9532	9614
20°	9562	9452	9522
25°	9455	9340	9428
30°	9324	9248	9308
35°	9223	9112	9158
40°	9046	8959	8978
45°	8858	8786	8786
50°	8672	8592	8552
55°	8471	8356	8311
60°	8154	8023	7971
65°	7765	7612	7519
70°	7235	7081	6930
75°	6488	6288	6135
80°	5249	5186	5021
85°	3123	3599	3726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.9
10°-20°	283.3	5.3
20°-30°	425.6	8.0
30°-40°	508.0	9.5
40°-50°	520.5	9.7
50°-60°	464.2	8.7
60°-70°	345.7	6.5
70°-80°	187.7	3.5
80°-90°	44.4	0.8
90°-100°	150.9	2.8
100°-110°	525.0	9.8
110°-120°	508.6	9.5
120°-130°	398.9	7.5
130°-140°	315.7	5.9
140°-150°	243.7	4.6
150°-160°	174.7	3.3
160°-170°	106.8	2.0
170°-180°	36.1	0.7
0°-30°	808.4	15.1
0°-40°	1316.4	24.7
0°-60°	2301.1	43.1
0°-90°	2878.9	53.9
90°-120°	1184.4	22.2
90°-150°	2142.8	40.1
90°-180°	2460.0	46.1
0°-180°	5339.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1053	1052	1040	1050	1049	100
15°	1011	1008	998	1006	1006	285
25°	929	926	918	923	926	428
35°	819	816	809	809	813	511
45°	679	680	673	672	673	524
55°	527	527	520	515	517	469
65°	356	354	349	344	344	352
75°	182	180	176	174	172	192
85°	30	32	34	35	35	41
90°	6	8	8	6	3	4
95°	25	88	255	65	40	27
105°	88	124	552	931	866	92
115°	153	184	410	866	1021	151
125°	207	255	382	645	770	185
135°	249	280	379	538	608	193
145°	291	311	376	464	504	182
155°	331	342	371	413	427	153
165°	362	365	373	390	393	102
175°	379	379	376	382	379	36
180°	379	379	379	379	379	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1057.7	1055.6	1046.6	1054.4	1053.4
5°	1053.1	1051.7	1040.4	1050.2	1048.8
7.5°	1045.4	1042.8	1031.5	1041.3	1039.8
10°	1037.5	1034.6	1024.8	1033.2	1031.9
12.5°	1027.4	1025.7	1014.8	1023.2	1022.8
15°	1010.7	1007.8	997.9	1006.5	1006.5
17.5°	988.7	987.1	977.3	985.4	984.6
20°	973.9	971.2	962.7	969.8	969.8
22.5°	956.0	954.3	945.9	951.7	952.8
25°	928.8	926.1	917.5	923.3	926.1
27.5°	898.9	896.8	889.7	893.3	895.3
30°	875.2	875.2	868.1	869.6	873.7
32.5°	853.8	853.8	845.6	847.0	849.0
35°	818.9	816.0	809.0	809.0	813.1
37.5°	778.0	776.7	772.2	771.4	772.6
40°	751.1	749.7	743.9	745.4	745.4
42.5°	723.9	722.5	716.7	714.8	717.0
45°	678.9	680.4	673.4	671.9	673.4
47.5°	634.8	634.8	629.0	625.1	627.3
50°	604.2	604.2	598.6	595.8	595.8
52.5°	572.6	573.6	566.8	563.0	564.1
55°	526.6	526.6	519.5	515.3	516.7
57.5°	475.7	475.7	468.7	464.4	466.9
60°	441.9	441.9	434.8	430.5	432.0
62.5°	408.0	408.0	401.0	396.7	396.9
65°	355.7	354.4	348.7	344.4	344.4
67.5°	305.4	301.8	297.6	291.9	291.9
70°	268.2	266.8	262.5	256.9	256.9
72.5°	234.3	231.8	227.5	223.1	223.1
75°	182.0	180.5	176.4	173.7	172.1
77.5°	130.4	129.4	129.0	125.1	126.2
80°	98.8	98.8	97.6	94.5	94.5
82.5°	70.6	71.6	69.2	68.5	67.4
85°	29.5	32.3	34.0	35.2	35.2
87.5°	5.8	8.9	7.9	9.1	9.1
90°	5.7	8.5	8.5	5.7	2.8
92.5°	14.2	42.5	39.6	16.9	14.2
95°	25.4	87.7	254.6	65.1	39.6
97.5°	39.6	99.0	509.2	232.0	124.5
100°	53.7	104.7	594.1	557.4	359.3
102.5°	70.8	113.1	591.3	783.7	645.1
105°	87.7	124.5	551.7	930.8	865.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.8	166.9	430.1	936.5	1066.6
115°	152.8	183.9	410.2	865.7	1021.3
117.5°	169.8	203.7	399.0	800.7	956.3
120°	183.9	220.7	390.4	738.4	891.2
122.5°	195.2	237.7	384.8	687.5	826.1
125°	206.6	254.6	381.9	645.1	769.5
127.5°	217.8	266.0	381.9	614.0	718.7
130°	229.2	271.6	379.1	582.8	676.2
132.5°	240.4	274.4	379.1	560.2	639.4
135°	248.9	280.1	379.1	537.5	608.3
137.5°	260.3	285.7	379.1	517.8	582.8
140°	268.8	294.3	379.1	497.9	554.6
142.5°	280.1	302.8	379.1	478.1	529.0
145°	291.4	311.2	376.3	464.0	503.6
147.5°	302.8	319.7	373.4	449.8	481.0
150°	311.2	328.2	373.4	435.7	461.2
152.5°	322.5	336.6	370.6	421.6	444.2
155°	331.0	342.3	370.6	413.1	427.2
157.5°	339.5	350.8	370.6	404.5	415.9
160°	348.0	356.5	373.4	399.0	407.4
162.5°	356.5	362.2	373.4	393.3	399.0
165°	362.2	365.0	373.4	390.4	393.3
167.5°	367.8	370.6	373.4	387.6	387.6
170°	370.6	373.4	376.3	384.8	384.8
172.5°	376.3	376.3	376.3	381.9	381.9
175°	379.1	379.1	376.3	381.9	379.1
177.5°	379.1	379.1	376.3	381.9	379.1
180°	379.1	379.1	379.1	379.1	379.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	104.7	138.7	500.7	995.9	1007.2
110°	118.8	152.8	461.2	987.4	1069.5



(END OF REPORT)