

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: P845161

Luminaire Tested: **SQ4P-PR1-050U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845161
REPORT IS A COMBINATION OF REPORTS P700204 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-050U-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

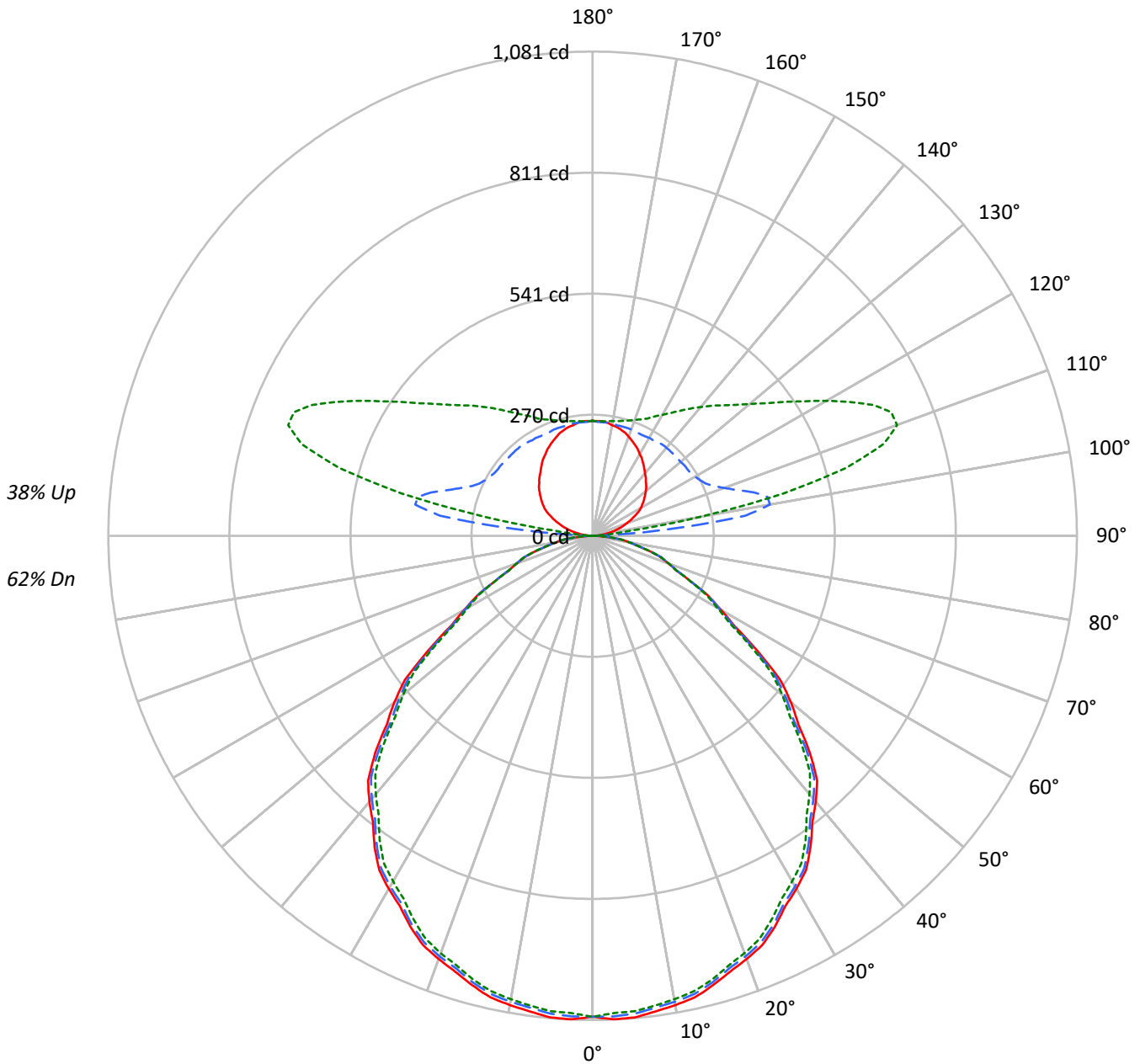
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4349.1 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.6
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62																			
1	101	96	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53																			
2	92	85	79	73	86	80	74	70	70	66	62	61	58	55	53	51	49	45																			
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38																			
4	77	66	59	52	72	63	56	50	55	50	45	49	44	41	42	39	36	33																			
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29																			
6	66	53	45	39	61	50	43	38	45	39	35	40	35	31	35	31	28	25																			
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23																			
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20																			
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18																			
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9908	9908	9908
5°	9998	9921	9869
10°	9965	9897	9844
15°	9922	9860	9807
20°	9872	9809	9736
25°	9802	9737	9624
30°	9696	9629	9490
35°	9554	9470	9335
40°	9334	9235	9069
45°	8956	8798	8617
50°	8285	8085	7926
55°	7230	7070	6920
60°	6095	6043	5921
65°	5270	5292	5250
70°	4839	4864	4864
75°	4648	4648	4684
80°	4373	4421	4373
85°	3525	3917	3917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	2.3
10°-20°	290.6	6.7
20°-30°	438.3	10.1
30°-40°	522.2	12.0
40°-50°	514.8	11.8
50°-60°	393.5	9.0
60°-70°	243.5	5.6
70°-80°	138.3	3.2
80°-90°	42.7	1.0
90°-100°	102.0	2.3
100°-110°	355.0	8.2
110°-120°	343.9	7.9
120°-130°	269.8	6.2
130°-140°	213.5	4.9
140°-150°	164.8	3.8
150°-160°	118.1	2.7
160°-170°	72.3	1.7
170°-180°	24.4	0.6
0°-30°	830.4	19.1
0°-40°	1352.6	31.1
0°-60°	2260.9	52.0
0°-90°	2685.3	61.7
90°-120°	800.9	18.4
90°-150°	1449.0	33.3
90°-180°	1664.0	38.3
0°-180°	4349.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1080	1068	1071	1067	1066	102
15°	1039	1028	1032	1029	1027	293
25°	963	951	956	946	945	443
35°	848	838	841	830	829	529
45°	686	677	674	662	660	526
55°	450	442	440	432	430	403
65°	241	240	242	240	240	245
75°	130	130	130	131	131	138
85°	33	35	37	37	37	39
90°	4	6	6	4	2	4
95°	17	59	172	44	27	18
105°	59	84	373	629	585	62
115°	103	124	277	585	691	102
125°	140	172	258	436	520	125
135°	168	189	256	364	411	130
145°	197	210	254	314	340	123
155°	224	232	251	279	289	103
165°	245	247	253	264	266	69
175°	256	256	254	258	256	24
180°	256	256	256	256	256	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.9	1073.9	1073.9	1073.9	1073.9
2.5°	1080.6	1071.2	1073.9	1071.7	1066.6
5°	1079.5	1067.7	1071.2	1067.3	1065.6
7.5°	1071.2	1059.5	1063.0	1059.2	1058.3
10°	1063.7	1052.8	1056.4	1052.7	1050.7
12.5°	1055.6	1044.1	1048.3	1043.8	1042.0
15°	1038.8	1028.0	1032.3	1028.7	1026.7
17.5°	1020.3	1008.7	1013.1	1008.9	1006.5
20°	1005.5	994.7	999.0	992.6	991.6
22.5°	989.2	978.4	982.7	974.1	973.9
25°	962.9	951.2	956.5	946.3	945.4
27.5°	931.7	920.8	925.2	914.8	913.8
30°	910.1	899.3	903.8	892.6	890.8
32.5°	885.8	875.7	879.4	868.2	867.1
35°	848.3	838.3	840.8	829.8	828.8
37.5°	805.5	796.5	797.9	785.6	784.8
40°	775.0	766.2	766.8	753.9	753.0
42.5°	741.9	732.9	732.0	719.2	718.2
45°	686.4	677.4	674.3	662.2	660.4
47.5°	623.1	614.1	608.4	598.5	597.3
50°	577.2	568.2	563.3	554.9	552.2
52.5°	527.6	518.6	514.6	506.9	504.2
55°	449.5	442.3	439.5	431.9	430.2
57.5°	375.4	370.5	369.6	362.4	361.7
60°	330.3	327.5	327.5	320.9	320.9
62.5°	291.8	289.7	291.1	286.8	286.2
65°	241.4	239.6	242.4	240.5	240.5
67.5°	201.7	201.7	203.3	202.5	202.5
70°	179.4	179.4	180.3	180.3	180.3
72.5°	159.5	158.8	161.2	161.1	160.4
75°	130.4	130.4	130.4	131.4	131.4
77.5°	101.6	101.8	102.5	102.3	101.6
80°	82.3	83.2	83.2	82.3	82.3
82.5°	63.1	64.0	64.0	63.8	63.1
85°	33.3	35.0	37.0	37.0	37.0
87.5°	9.5	12.5	14.9	14.9	14.0
90°	3.8	5.7	5.7	3.8	1.9
92.5°	9.5	28.7	26.8	11.5	9.5
95°	17.2	59.3	172.2	44.0	26.8
97.5°	26.8	66.9	344.3	156.9	84.2
100°	36.4	70.8	401.8	376.9	243.0
102.5°	47.8	76.5	399.9	529.9	436.2
105°	59.3	84.2	373.1	629.4	585.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.9	112.9	290.8	633.3	721.3
115°	103.3	124.3	277.4	585.4	690.6
117.5°	114.8	137.8	269.7	541.4	646.6
120°	124.3	149.2	264.0	499.3	602.6
122.5°	132.0	160.7	260.2	464.9	558.6
125°	139.7	172.2	258.3	436.2	520.4
127.5°	147.3	179.8	258.3	415.2	485.9
130°	155.0	183.6	256.4	394.1	457.3
132.5°	162.6	185.5	256.4	378.8	432.4
135°	168.3	189.4	256.4	363.5	411.4
137.5°	176.0	193.3	256.4	350.1	394.1
140°	181.7	199.0	256.4	336.7	375.0
142.5°	189.4	204.7	256.4	323.3	357.8
145°	197.1	210.5	254.5	313.8	340.5
147.5°	204.7	216.2	252.6	304.2	325.2
150°	210.5	221.9	252.6	294.7	311.9
152.5°	218.1	227.6	250.7	285.0	300.4
155°	223.8	231.5	250.7	279.3	288.8
157.5°	229.5	237.2	250.7	273.6	281.2
160°	235.3	241.1	252.6	269.7	275.5
162.5°	241.1	244.9	252.6	265.9	269.7
165°	244.9	246.8	252.6	264.0	265.9
167.5°	248.7	250.7	252.6	262.1	262.1
170°	250.7	252.6	254.5	260.2	260.2
172.5°	254.5	254.5	254.5	258.3	258.3
175°	256.4	256.4	254.5	258.3	256.4
177.5°	256.4	256.4	254.5	258.3	256.4
180°	256.4	256.4	256.4	256.4	256.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	70.8	93.8	338.6	673.5	681.1
110°	80.4	103.3	311.9	667.7	723.2



(END OF REPORT)