

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: P845075

Luminaire Tested: **SQ4P-PP3-050U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845075
REPORT IS A COMBINATION OF REPORTS P700200 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-050U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

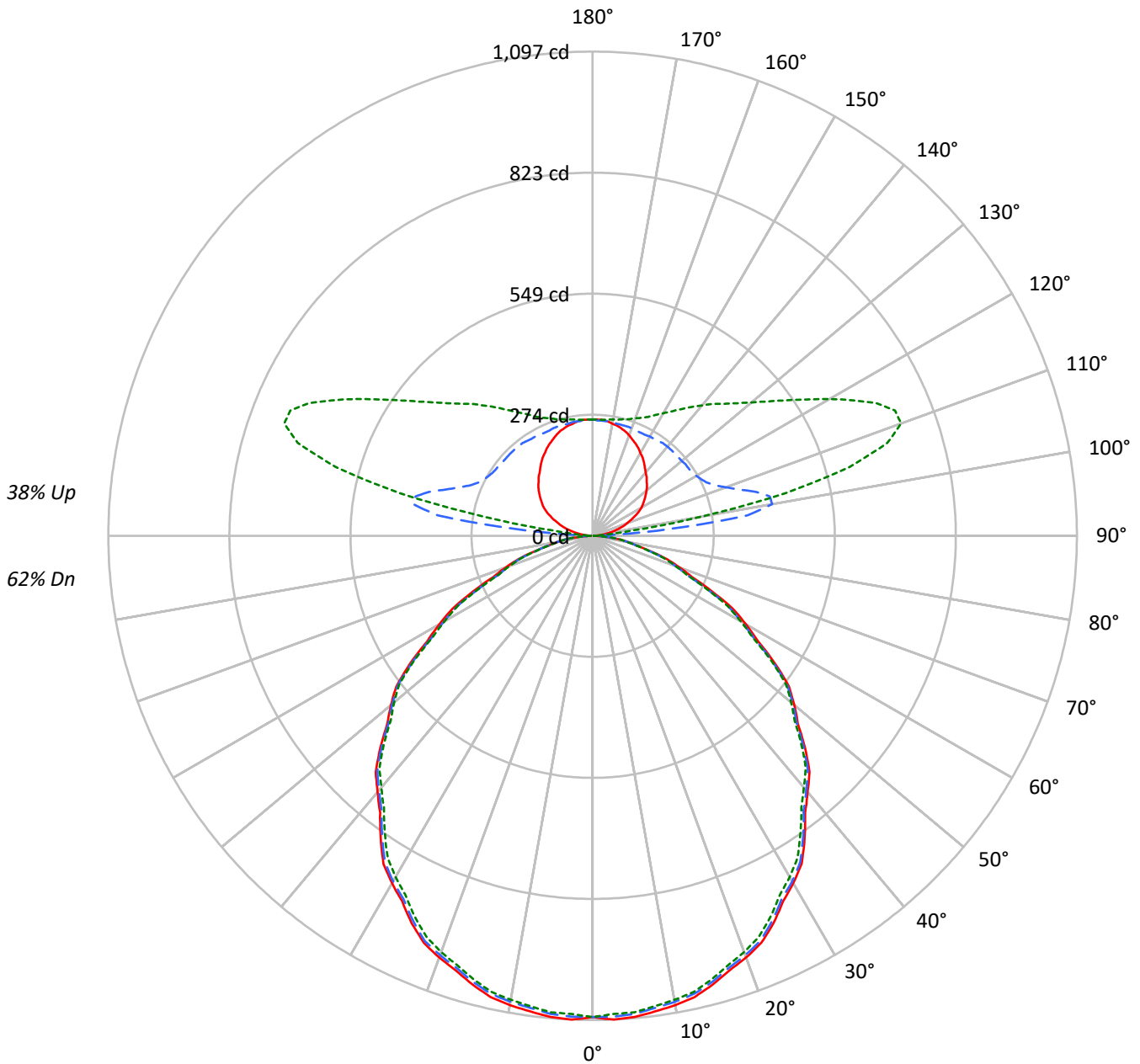
Lumens per Lamp: N/A
Luminaire Lumens: 4501.7 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45																			
3	84	74	67	61	78	70	64	58	62	57	52	54	50	47	47	44	42	38																			
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33																			
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28																			
6	65	53	45	39	61	50	43	37	45	38	34	39	34	31	34	31	28	25																			
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	32	28	25	22																			
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20																			
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18																			
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10061	10061	10061
5°	10134	10072	10037
10°	10117	10046	10001
15°	10051	9996	9940
20°	9983	9927	9852
25°	9865	9797	9701
30°	9683	9632	9509
35°	9429	9365	9246
40°	9127	9069	8967
45°	8879	8816	8728
50°	8559	8504	8421
55°	8115	8011	7949
60°	7388	7180	7141
65°	6512	6237	6217
70°	5616	5387	5387
75°	4837	4770	4698
80°	4261	4314	4213
85°	3335	3642	3642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	2.3
10°-20°	294.4	6.5
20°-30°	441.0	9.8
30°-40°	517.3	11.5
40°-50°	518.9	11.5
50°-60°	442.7	9.8
60°-70°	288.7	6.4
70°-80°	144.8	3.2
80°-90°	40.7	0.9
90°-100°	104.9	2.3
100°-110°	364.9	8.1
110°-120°	353.5	7.9
120°-130°	277.3	6.2
130°-140°	219.5	4.9
140°-150°	169.4	3.8
150°-160°	121.4	2.7
160°-170°	74.3	1.6
170°-180°	25.1	0.6
0°-30°	838.5	18.6
0°-40°	1355.8	30.1
0°-60°	2317.3	51.5
0°-90°	2791.5	62.0
90°-120°	823.3	18.3
90°-150°	1489.4	33.1
90°-180°	1710.0	38.0
0°-180°	4501.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1094	1084	1088	1084	1084	104
15°	1052	1042	1046	1043	1041	297
25°	969	958	962	954	953	446
35°	837	829	832	822	821	523
45°	680	676	676	669	669	524
55°	504	503	498	495	494	448
65°	298	293	286	284	285	298
75°	136	136	134	133	132	147
85°	32	34	34	34	34	37
90°	4	6	6	4	2	4
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.5	1090.5	1090.5	1090.5	1090.5
2.5°	1097.3	1088.4	1090.5	1088.9	1084.3
5°	1094.2	1084.1	1087.5	1083.7	1083.7
7.5°	1086.8	1075.6	1079.1	1075.3	1075.2
10°	1079.9	1068.7	1072.3	1068.4	1067.5
12.5°	1070.1	1058.8	1063.1	1058.5	1058.3
15°	1052.3	1041.9	1046.5	1042.6	1040.7
17.5°	1032.1	1020.9	1026.4	1021.1	1020.3
20°	1016.8	1005.6	1011.1	1003.4	1003.4
22.5°	998.5	987.3	993.5	983.6	983.6
25°	969.1	957.8	962.4	953.7	952.9
27.5°	934.1	923.1	927.9	918.0	917.8
30°	908.9	898.5	904.1	893.5	892.6
32.5°	881.4	871.8	875.8	865.2	864.3
35°	837.2	828.8	831.5	821.9	820.9
37.5°	790.8	782.2	785.1	776.9	776.6
40°	757.8	752.2	753.0	746.3	744.5
42.5°	727.3	720.9	721.7	714.9	714.6
45°	680.5	675.7	675.7	668.9	668.9
47.5°	630.8	627.2	626.2	620.5	620.4
50°	596.3	593.5	592.5	587.7	586.7
52.5°	560.4	559.1	555.8	551.8	551.6
55°	504.5	502.7	498.0	495.0	494.2
57.5°	444.1	440.3	434.9	430.8	431.4
60°	400.4	396.6	389.1	387.0	387.0
62.5°	358.4	353.9	346.2	343.6	345.0
65°	298.3	292.6	285.7	283.9	284.8
67.5°	243.6	238.4	231.0	231.0	230.4
70°	208.2	205.5	199.7	199.7	199.7
72.5°	176.9	175.7	171.5	171.3	170.7
75°	135.7	135.7	133.8	132.8	131.8
77.5°	101.7	102.0	101.2	100.2	98.3
80°	80.2	82.2	81.2	80.2	79.3
82.5°	60.5	62.2	62.1	60.5	60.2
85°	31.5	34.2	34.4	34.4	34.4
87.5°	8.4	11.4	12.2	12.2	13.0
90°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)