

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: P845072

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845072
REPORT IS A COMBINATION OF REPORTS P700199 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-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

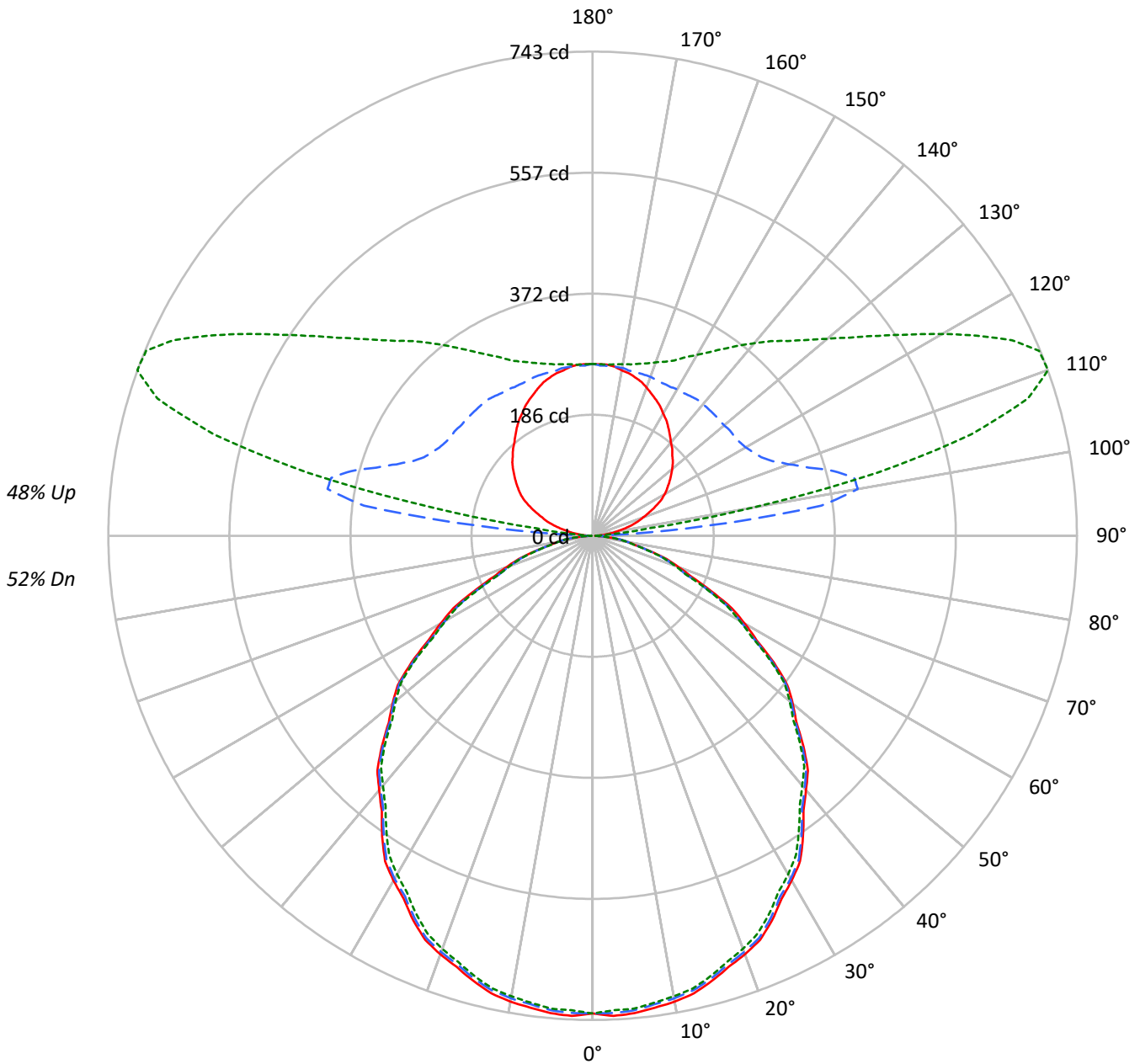
Lumens per Lamp: N/A
Luminaire Lumens: 3586.8 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 29.8
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52																			
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45																			
2	90	83	76	71	83	77	71	67	66	62	58	55	52	50	46	44	42	38																			
3	82	73	65	60	76	68	61	56	58	53	49	49	45	42	41	38	36	32																			
4	75	64	57	51	69	60	53	48	52	46	42	44	40	36	36	34	31	28																			
5	69	57	49	43	64	54	46	41	46	41	36	39	35	32	33	30	27	24																			
6	64	52	43	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21																			
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19																			
8	55	42	35	29	50	40	33	28	34	29	25	30	25	22	25	22	19	17																			
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15																			
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	16	14																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6762	6762	6762
5°	6812	6770	6746
10°	6801	6753	6723
15°	6756	6719	6681
20°	6710	6673	6622
25°	6630	6585	6520
30°	6508	6474	6392
35°	6339	6295	6215
40°	6134	6095	6026
45°	5968	5926	5868
50°	5753	5717	5661
55°	5456	5384	5342
60°	4966	4825	4801
65°	4377	4194	4178
70°	3777	3623	3623
75°	3255	3205	3158
80°	2864	2901	2827
85°	2234	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.9
10°-20°	197.9	5.5
20°-30°	296.4	8.3
30°-40°	347.7	9.7
40°-50°	348.8	9.7
50°-60°	297.5	8.3
60°-70°	194.1	5.4
70°-80°	97.4	2.7
80°-90°	27.6	0.8
90°-100°	104.9	2.9
100°-110°	364.9	10.2
110°-120°	353.5	9.9
120°-130°	277.3	7.7
130°-140°	219.5	6.1
140°-150°	169.4	4.7
150°-160°	121.4	3.4
160°-170°	74.3	2.1
170°-180°	25.1	0.7
0°-30°	563.6	15.7
0°-40°	911.3	25.4
0°-60°	1557.6	43.4
0°-90°	1876.6	52.3
90°-120°	823.3	23.0
90°-150°	1489.4	41.5
90°-180°	1710.0	47.7
0°-180°	3586.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	736	729	731	728	728	70
15°	707	700	703	701	700	200
25°	651	644	647	641	640	300
35°	563	557	559	552	552	352
45°	457	454	454	450	450	352
55°	339	338	335	333	332	301
65°	200	197	192	191	191	200
75°	91	91	90	89	89	99
85°	21	23	23	23	23	25
90°	4	6	6	4	2	3
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°	732.9	732.9	732.9	732.9	732.9
2.5°	737.5	731.6	732.9	731.9	728.8
5°	735.5	728.6	731.0	728.4	728.4
7.5°	730.5	723.0	725.3	722.8	722.7
10°	725.9	718.4	720.8	718.2	717.6
12.5°	719.2	711.7	714.5	711.5	711.4
15°	707.3	700.3	703.4	700.8	699.5
17.5°	693.8	686.3	689.9	686.4	685.8
20°	683.4	675.9	679.6	674.5	674.5
22.5°	671.2	663.7	667.9	661.1	661.1
25°	651.3	643.8	646.9	641.1	640.5
27.5°	627.8	620.4	623.6	617.0	616.9
30°	610.9	604.0	607.7	600.6	600.0
32.5°	592.4	586.0	588.7	581.6	580.9
35°	562.8	557.1	558.9	552.4	551.8
37.5°	531.5	525.8	527.7	522.2	522.0
40°	509.3	505.6	506.1	501.6	500.3
42.5°	488.9	484.6	485.1	480.6	480.4
45°	457.4	454.2	454.2	449.7	449.7
47.5°	424.0	421.6	420.9	417.1	417.0
50°	400.8	399.0	398.3	395.0	394.4
52.5°	376.7	375.8	373.6	370.9	370.8
55°	339.2	337.9	334.7	332.7	332.1
57.5°	298.5	295.9	292.3	289.6	289.9
60°	269.1	266.6	261.5	260.2	260.2
62.5°	240.9	237.9	232.7	230.9	231.9
65°	200.5	196.7	192.1	190.8	191.4
67.5°	163.7	160.3	155.3	155.3	154.8
70°	140.0	138.1	134.3	134.3	134.3
72.5°	119.0	118.0	115.3	115.2	114.8
75°	91.3	91.3	89.9	89.2	88.6
77.5°	68.3	68.6	68.0	67.3	66.2
80°	53.9	55.3	54.6	53.9	53.2
82.5°	40.6	41.9	41.8	40.6	40.4
85°	21.1	23.0	23.2	23.2	23.2
87.5°	5.7	7.6	8.2	8.2	8.7
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)