

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: P845205

Luminaire Tested: **SQ4P-PR1-125U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845205
REPORT IS A COMBINATION OF REPORTS P700119 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-125U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

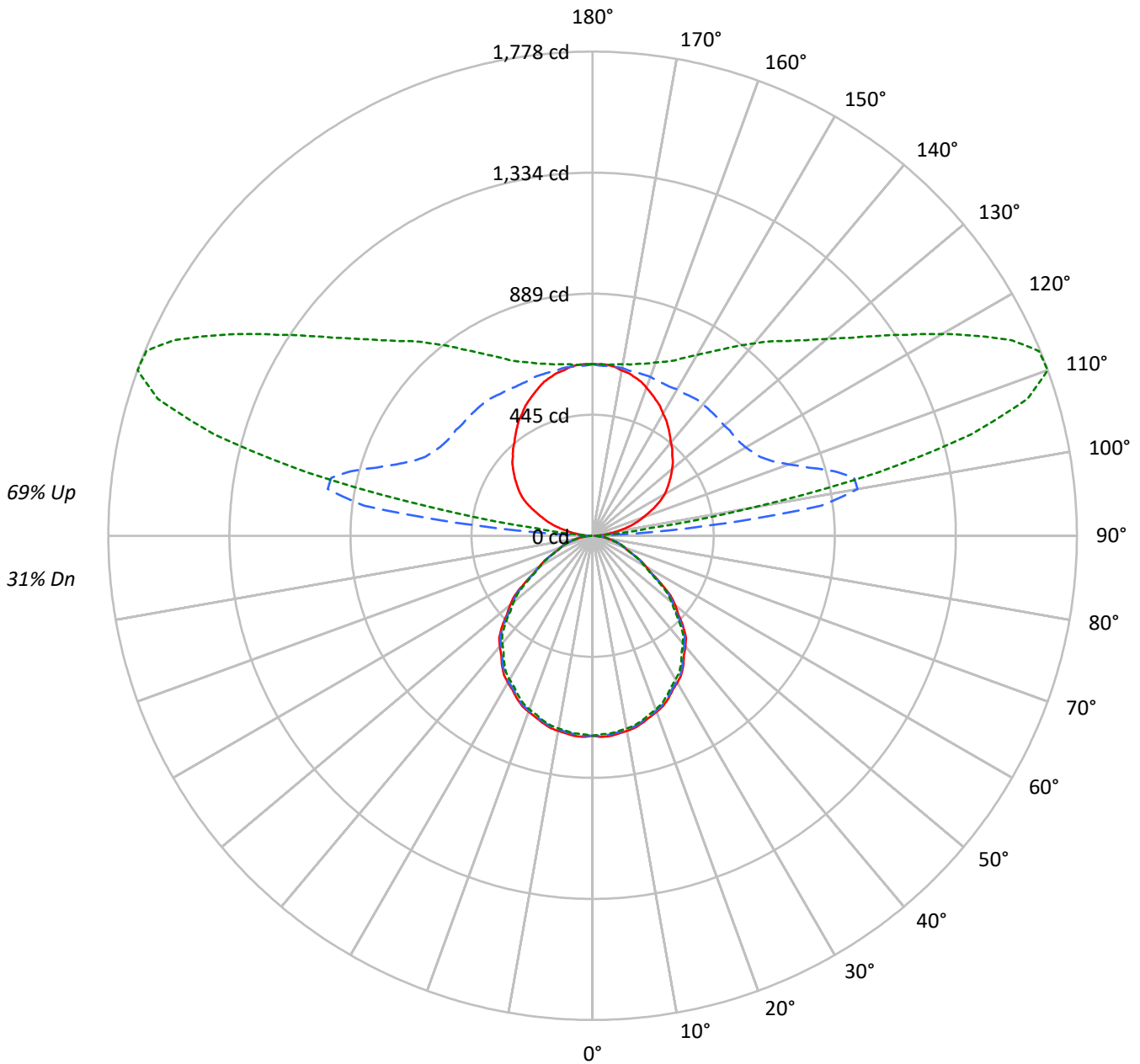
Lumens per Lamp: N/A
Luminaire Lumens: 5928.2 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.8
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31																			
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	34	34	33	26																			
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	22																			
3	78	69	62	56	70	62	56	52	50	45	42	38	35	33	27	25	24	19																			
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17																			
5	65	54	47	41	59	49	42	37	39	35	31	30	27	24	22	20	18	15																			
6	60	49	41	35	54	44	37	32	35	31	27	27	24	21	20	18	16	13																			
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14	11																			
8	51	40	32	27	46	36	30	25	29	24	21	23	19	17	17	14	13	10																			
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11	9																			
10	45	33	26	21	40	30	24	20	24	20	17	19	16	14	14	12	10	8																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6777	6777	6777
5°	6839	6786	6751
10°	6817	6769	6734
15°	6787	6744	6708
20°	6752	6709	6659
25°	6706	6661	6583
30°	6632	6586	6491
35°	6536	6477	6385
40°	6386	6317	6204
45°	6126	6019	5895
50°	5667	5530	5421
55°	4946	4835	4734
60°	4168	4133	4052
65°	3604	3620	3589
70°	3310	3329	3329
75°	3183	3183	3201
80°	2991	3029	2991
85°	2414	2678	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.2
10°-20°	198.8	3.4
20°-30°	299.8	5.1
30°-40°	357.2	6.0
40°-50°	352.1	5.9
50°-60°	269.1	4.5
60°-70°	166.5	2.8
70°-80°	94.6	1.6
80°-90°	30.3	0.5
90°-100°	250.8	4.2
100°-110°	872.7	14.7
110°-120°	845.4	14.3
120°-130°	663.2	11.2
130°-140°	524.9	8.9
140°-150°	405.1	6.8
150°-160°	290.4	4.9
160°-170°	177.6	3.0
170°-180°	60.1	1.0
0°-30°	568.0	9.6
0°-40°	925.2	15.6
0°-60°	1546.5	26.1
0°-90°	1838.0	31.0
90°-120°	1969.0	33.2
90°-150°	3562.1	60.1
90°-180°	4090.0	69.0
0°-180°	5928.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	738	730	733	730	729	70
15°	711	703	706	704	702	201
25°	659	650	654	647	647	303
35°	580	573	575	568	567	362
45°	470	463	461	453	452	360
55°	308	302	301	296	294	276
65°	165	164	166	164	164	167
75°	89	89	89	90	90	94
85°	23	24	25	25	25	26
90°	9	14	14	9	5	7
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.5	734.5	734.5	734.5	734.5
2.5°	739.1	732.7	734.5	733.0	729.5
5°	738.4	730.3	732.7	730.1	728.9
7.5°	732.7	724.8	727.2	724.6	723.9
10°	727.6	720.2	722.5	720.0	718.8
12.5°	722.0	714.2	717.0	713.9	712.7
15°	710.6	703.2	706.1	703.5	702.3
17.5°	697.9	690.0	693.0	690.1	688.4
20°	687.7	680.4	683.3	678.9	678.2
22.5°	676.6	669.2	672.1	666.3	666.1
25°	658.7	650.5	654.3	647.3	646.7
27.5°	637.3	629.9	632.8	625.7	625.0
30°	622.5	615.2	618.2	610.5	609.3
32.5°	605.9	599.0	601.5	593.8	593.1
35°	580.3	573.4	575.1	567.6	566.9
37.5°	551.0	544.8	545.8	537.3	536.9
40°	530.2	524.1	524.5	515.6	515.1
42.5°	507.5	501.3	500.7	491.9	491.2
45°	469.5	463.3	461.3	452.9	451.8
47.5°	426.2	420.0	416.2	409.4	408.6
50°	394.8	388.6	385.3	379.6	377.7
52.5°	360.9	354.7	352.0	346.7	344.9
55°	307.5	302.5	300.6	295.5	294.3
57.5°	256.7	253.5	252.8	247.9	247.4
60°	225.9	224.0	224.0	219.6	219.6
62.5°	199.6	198.2	199.1	196.2	195.8
65°	165.1	164.0	165.8	164.4	164.4
67.5°	138.0	138.0	139.1	138.5	138.5
70°	122.7	122.7	123.4	123.4	123.4
72.5°	109.0	108.6	110.3	110.2	109.7
75°	89.3	89.3	89.3	89.8	89.8
77.5°	69.5	69.6	70.2	70.1	69.5
80°	56.3	57.0	57.0	56.3	56.3
82.5°	43.2	43.7	43.7	43.6	43.2
85°	22.8	24.0	25.3	25.3	25.3
87.5°	6.6	8.5	10.2	10.2	9.6
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)