

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: P844892

Luminaire Tested: **SQ4P-F-025U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844892
REPORT IS A COMBINATION OF REPORTS P700163 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-025U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

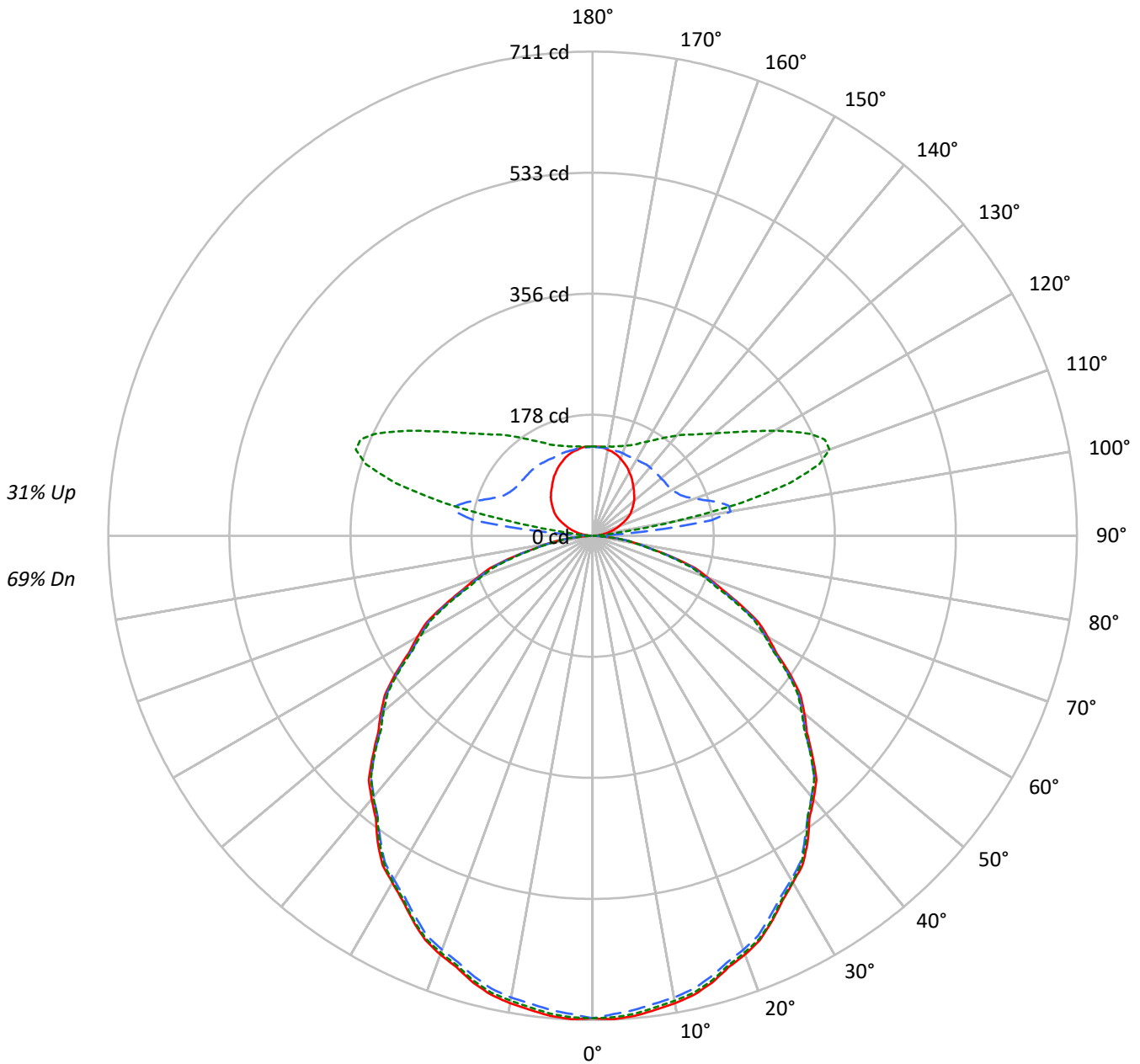
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2785.0 lumens
Efficiency: N/A
Efficacy: 117.0 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: Semi-Direct

Input Watts (W): 23.8
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69																			
1	102	98	94	90	96	92	89	86	83	80	77	74	72	70	65	64	62	58																			
2	93	85	79	73	88	81	75	70	72	68	64	65	61	58	57	55	52	49																			
3	85	75	67	61	80	71	64	59	64	58	54	57	53	49	51	47	45	41																			
4	78	66	58	52	73	63	55	50	57	51	46	51	46	42	45	41	38	35																			
5	71	59	51	44	67	56	48	43	51	44	39	46	40	36	41	37	33	30																			
6	66	53	45	38	62	50	43	37	46	39	34	41	36	32	37	33	29	27																			
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	34	29	26	24																			
8	56	44	36	30	53	42	34	29	38	32	27	34	29	25	31	27	23	21																			
9	53	40	32	27	50	38	31	26	35	29	24	32	26	23	29	24	21	19																			
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6537	6537	6537
5°	6553	6475	6527
10°	6530	6450	6495
15°	6486	6404	6460
20°	6425	6350	6397
25°	6352	6276	6335
30°	6264	6213	6254
35°	6196	6122	6153
40°	6077	6020	6032
45°	5952	5903	5903
50°	5826	5773	5744
55°	5691	5615	5583
60°	5479	5390	5355
65°	5218	5115	5050
70°	4864	4756	4656
75°	4360	4228	4124
80°	3528	3485	3374
85°	2096	2414	2509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	2.4
10°-20°	190.4	6.8
20°-30°	285.9	10.3
30°-40°	341.3	12.3
40°-50°	349.7	12.6
50°-60°	311.9	11.2
60°-70°	232.3	8.3
70°-80°	126.1	4.5
80°-90°	29.5	1.1
90°-100°	52.2	1.9
100°-110°	181.6	6.5
110°-120°	175.9	6.3
120°-130°	138.0	5.0
130°-140°	109.2	3.9
140°-150°	84.3	3.0
150°-160°	60.4	2.2
160°-170°	37.0	1.3
170°-180°	12.5	0.4
0°-30°	543.1	19.5
0°-40°	884.4	31.8
0°-60°	1546.1	55.5
0°-90°	1934.0	69.4
90°-120°	409.7	14.7
90°-150°	741.2	26.6
90°-180°	851.0	30.6
0°-180°	2785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	708	707	699	706	705	67
15°	679	677	670	676	676	191
25°	624	622	616	620	622	287
35°	550	548	544	544	546	343
45°	456	457	452	451	452	352
55°	354	354	349	346	347	315
65°	239	238	234	231	231	237
75°	122	121	119	117	116	129
85°	20	22	23	24	24	28
90°	2	3	3	2	1	2
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.5	708.5	708.5	708.5	708.5
2.5°	710.6	709.3	703.1	708.5	707.8
5°	707.6	706.6	699.1	705.5	704.7
7.5°	702.4	700.6	693.1	699.6	698.6
10°	697.0	695.2	688.5	694.2	693.3
12.5°	690.3	689.2	681.8	687.4	687.2
15°	679.0	677.2	670.5	676.3	676.3
17.5°	664.3	663.2	656.6	662.1	661.5
20°	654.4	652.6	646.8	651.5	651.5
22.5°	642.2	641.2	635.5	639.4	640.2
25°	624.0	622.3	616.5	620.3	622.3
27.5°	604.0	602.5	597.8	600.2	601.5
30°	588.0	588.0	583.2	584.3	587.0
32.5°	573.6	573.6	568.1	569.1	570.4
35°	550.1	548.3	543.5	543.5	546.3
37.5°	522.8	521.9	518.8	518.2	519.0
40°	504.6	503.7	499.8	500.8	500.8
42.5°	486.4	485.4	481.6	480.3	481.7
45°	456.2	457.2	452.4	451.4	452.4
47.5°	426.6	426.6	422.6	420.0	421.5
50°	405.9	405.9	402.2	400.2	400.2
52.5°	384.7	385.5	380.8	378.2	379.0
55°	353.8	353.8	349.1	346.2	347.1
57.5°	319.6	319.6	314.9	312.1	313.7
60°	296.9	296.9	292.1	289.3	290.2
62.5°	274.1	274.1	269.4	266.6	266.7
65°	239.0	238.1	234.3	231.3	231.3
67.5°	205.2	202.8	199.9	196.2	196.2
70°	180.3	179.2	176.3	172.6	172.6
72.5°	157.5	155.8	152.9	149.9	149.9
75°	122.3	121.3	118.6	116.6	115.7
77.5°	87.7	86.9	86.7	84.1	84.8
80°	66.4	66.4	65.6	63.5	63.5
82.5°	47.4	48.1	46.5	46.1	45.3
85°	19.8	21.7	22.8	23.7	23.7
87.5°	3.9	6.0	5.3	6.1	6.1
90°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)