

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: P845145

Luminaire Tested: **SQ4P-PR1-025U-050D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845145
REPORT IS A COMBINATION OF REPORTS P700175 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-025U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

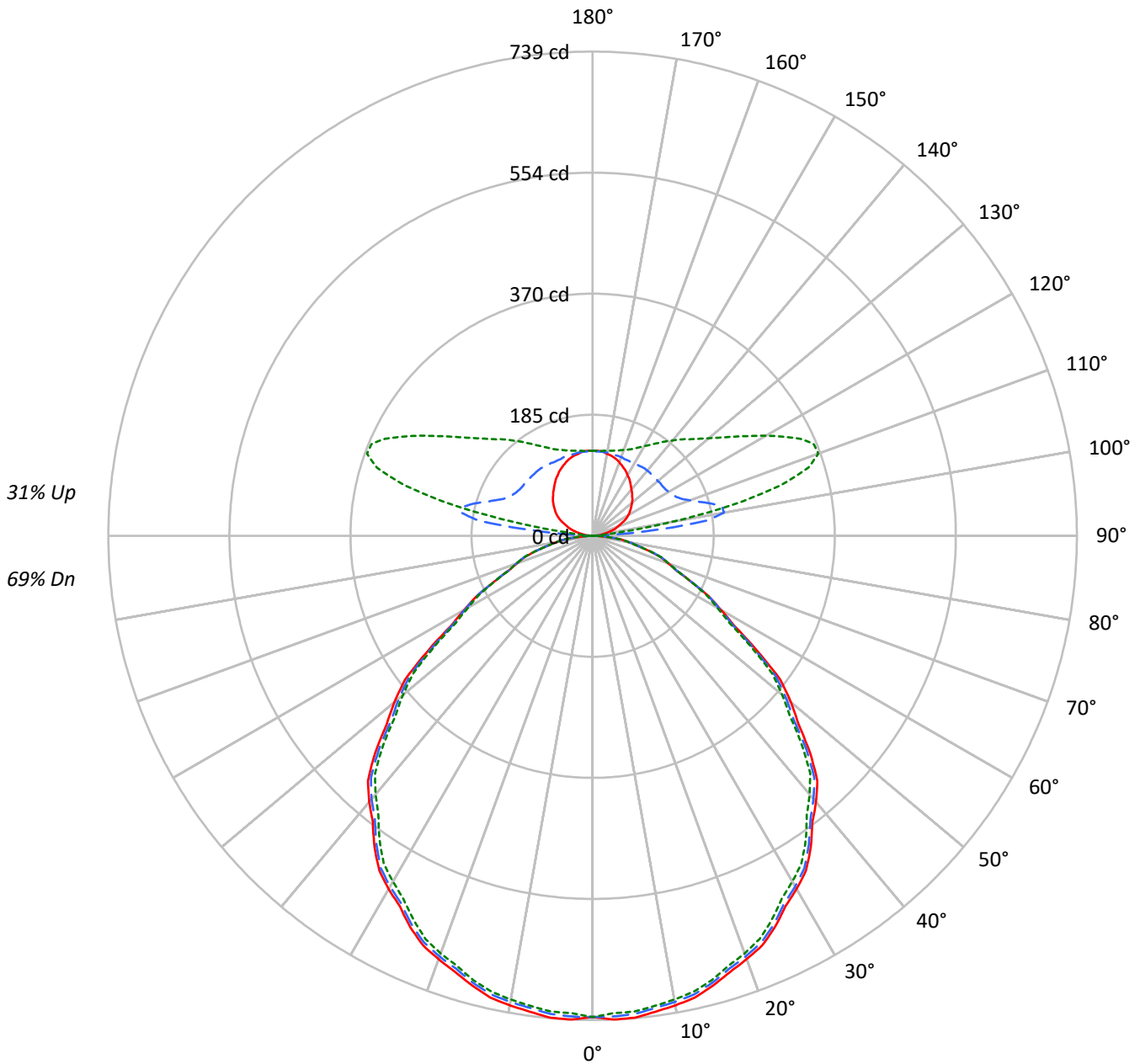
Lumens per Lamp: N/A
Luminaire Lumens: 2679.5 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	105	105	105	105	94	94	94	83	83	83	73	73	73	69																			
1	102	98	94	91	96	93	89	86	83	80	78	74	72	70	65	64	63	59																			
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	58	56	53	50																			
3	86	76	69	63	81	72	66	60	65	60	55	58	54	50	52	49	46	43																			
4	79	68	60	54	74	64	57	51	58	52	47	52	47	44	46	43	40	37																			
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35	32																			
6	67	54	46	40	63	52	44	39	47	41	36	42	37	34	38	34	31	28																			
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28	25																			
8	57	45	37	32	54	43	36	31	39	33	29	36	30	27	32	28	25	23																			
9	54	41	34	28	51	39	32	28	36	30	26	33	28	24	30	25	22	20																			
10	50	38	31	26	47	36	29	25	33	27	23	30	25	22	28	23	20	18																			

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	2.6
10°-20°	198.8	7.4
20°-30°	299.8	11.2
30°-40°	357.2	13.3
40°-50°	352.1	13.1
50°-60°	269.1	10.0
60°-70°	166.5	6.2
70°-80°	94.6	3.5
80°-90°	29.1	1.1
90°-100°	51.7	1.9
100°-110°	179.8	6.7
110°-120°	174.2	6.5
120°-130°	136.6	5.1
130°-140°	108.2	4.0
140°-150°	83.5	3.1
150°-160°	59.8	2.2
160°-170°	36.6	1.4
170°-180°	12.4	0.5
0°-30°	568.0	21.2
0°-40°	925.2	34.5
0°-60°	1546.5	57.7
0°-90°	1836.7	68.5
90°-120°	405.7	15.1
90°-150°	734.0	27.4
90°-180°	843.0	31.5
0°-180°	2679.5	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°	2	3	3	2	1	2
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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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°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)