

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: P845229

Luminaire Tested: **SQ4P-PW1-025U-050D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845229
REPORT IS A COMBINATION OF REPORTS P700179 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PW1-025U-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

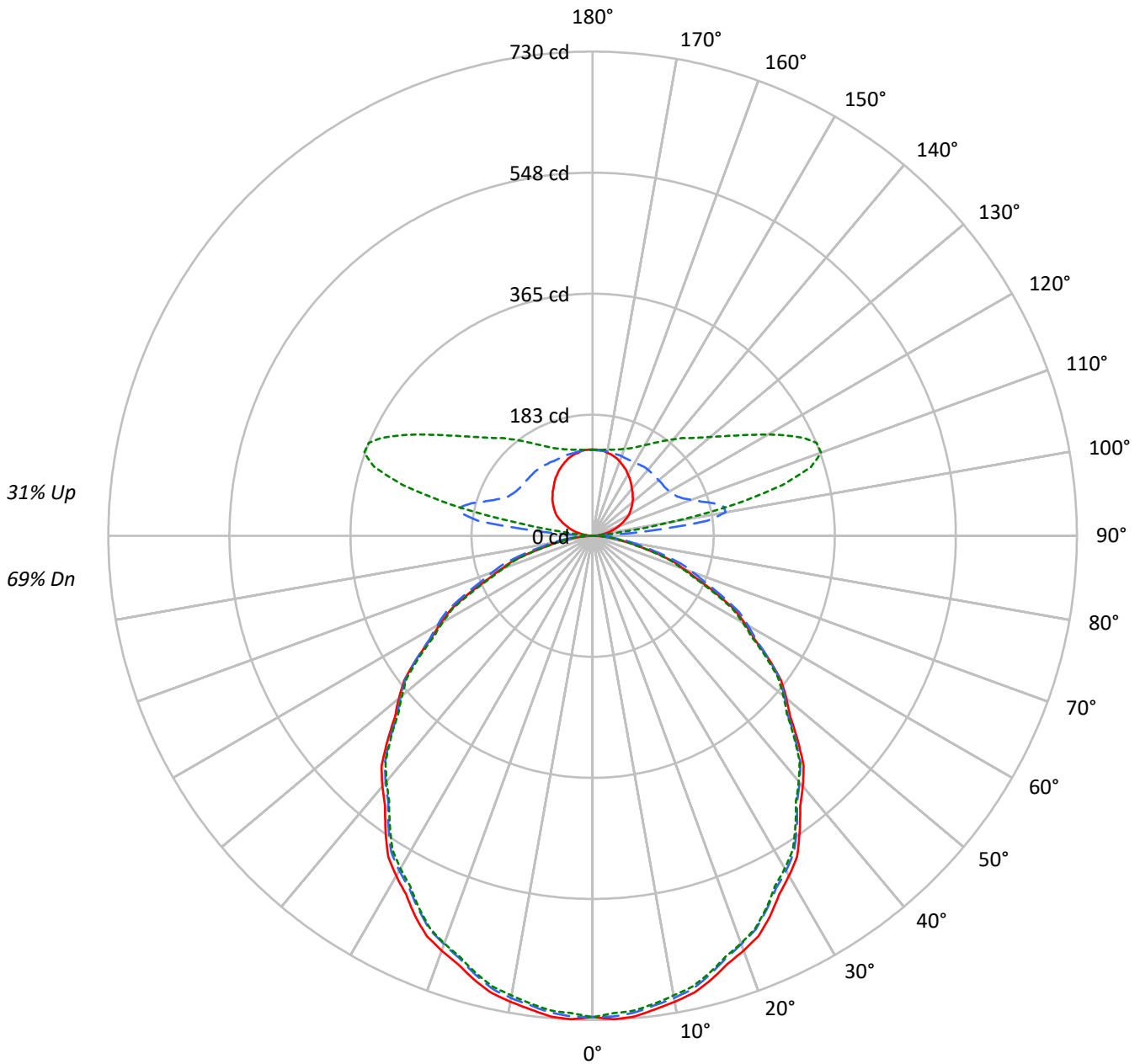
Lumens per Lamp: N/A
Luminaire Lumens: 2689.2 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	90	96	92	89	86	83	80	77	73	71	70	65	64	62	58																			
2	93	86	79	74	88	81	75	71	72	68	64	65	61	58	57	55	53	49																			
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	51	48	45	41																			
4	78	67	59	52	73	63	56	50	57	51	46	51	46	42	46	42	39	36																			
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31																			
6	66	54	45	39	62	51	43	38	46	40	35	42	36	32	37	33	30	27																			
7	61	49	40	35	58	46	39	33	42	36	31	38	33	29	34	30	27	24																			
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	31	27	24	22																			
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	19																			
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6694	6694	6694
5°	6738	6685	6655
10°	6684	6630	6594
15°	6614	6539	6515
20°	6534	6433	6421
25°	6443	6326	6305
30°	6307	6212	6171
35°	6127	6040	6004
40°	5936	5844	5821
45°	5705	5630	5605
50°	5469	5423	5385
55°	5213	5213	5131
60°	4895	4991	4814
65°	4480	4702	4368
70°	3947	4330	3844
75°	3376	3871	3283
80°	2614	3257	2651
85°	1694	2498	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	2.5
10°-20°	192.9	7.2
20°-30°	286.1	10.6
30°-40°	334.8	12.4
40°-50°	333.3	12.4
50°-60°	287.8	10.7
60°-70°	207.2	7.7
70°-80°	108.6	4.0
80°-90°	27.2	1.0
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°	547.4	20.4
0°-40°	882.2	32.8
0°-60°	1503.3	55.9
0°-90°	1846.4	68.7
90°-120°	405.7	15.1
90°-150°	734.0	27.3
90°-180°	843.0	31.3
0°-180°	2689.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	728	719	722	720	719	69
15°	692	684	685	683	682	195
25°	633	622	621	618	619	291
35°	544	537	536	531	533	340
45°	437	434	432	430	430	337
55°	324	324	324	320	319	289
65°	205	211	215	207	200	203
75°	95	103	109	101	92	101
85°	16	21	24	22	21	21
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°	725.5	725.5	725.5	725.5	725.5
2.5°	729.7	723.7	725.5	724.0	720.5
5°	727.5	719.3	721.8	719.8	718.6
7.5°	720.1	712.6	714.3	712.3	711.6
10°	713.4	706.0	707.7	705.2	703.8
12.5°	705.8	697.7	699.6	696.9	696.2
15°	692.4	683.6	684.6	683.3	682.1
17.5°	676.7	667.9	668.0	666.0	665.6
20°	665.5	656.2	655.2	652.7	654.0
22.5°	653.2	643.4	642.5	638.9	640.6
25°	632.9	622.2	621.4	617.6	619.4
27.5°	609.3	598.9	598.9	593.6	595.5
30°	592.0	581.9	583.1	576.7	579.2
32.5°	573.6	564.6	565.1	558.8	561.4
35°	544.0	536.6	536.3	531.2	533.1
37.5°	513.8	507.2	506.1	503.2	503.7
40°	492.9	487.2	485.2	483.3	483.3
42.5°	470.9	465.8	463.7	462.2	461.9
45°	437.2	433.6	431.5	430.2	429.6
47.5°	404.0	400.5	398.8	397.9	397.2
50°	381.0	378.5	377.8	375.9	375.2
52.5°	358.1	356.5	355.8	353.4	352.7
55°	324.1	323.6	324.1	319.7	319.0
57.5°	288.8	289.8	291.9	285.9	284.3
60°	265.3	267.8	270.5	263.4	260.9
62.5°	241.2	245.3	249.0	240.8	237.2
65°	205.2	211.4	215.4	207.0	200.1
67.5°	170.5	178.2	183.0	173.8	166.1
70°	146.3	155.1	160.5	151.3	142.5
72.5°	125.4	135.2	139.5	130.8	122.1
75°	94.7	103.4	108.6	101.4	92.1
77.5°	67.2	75.4	79.8	73.5	65.7
80°	49.2	57.9	61.3	56.1	49.9
82.5°	34.9	42.3	44.5	41.3	37.0
85°	16.0	20.9	23.6	22.4	21.0
87.5°	4.1	7.6	9.7	9.7	10.3
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)