

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: P845232

Luminaire Tested: **SQ4P-PW1-025U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845232
REPORT IS A COMBINATION OF REPORTS P700180 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-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

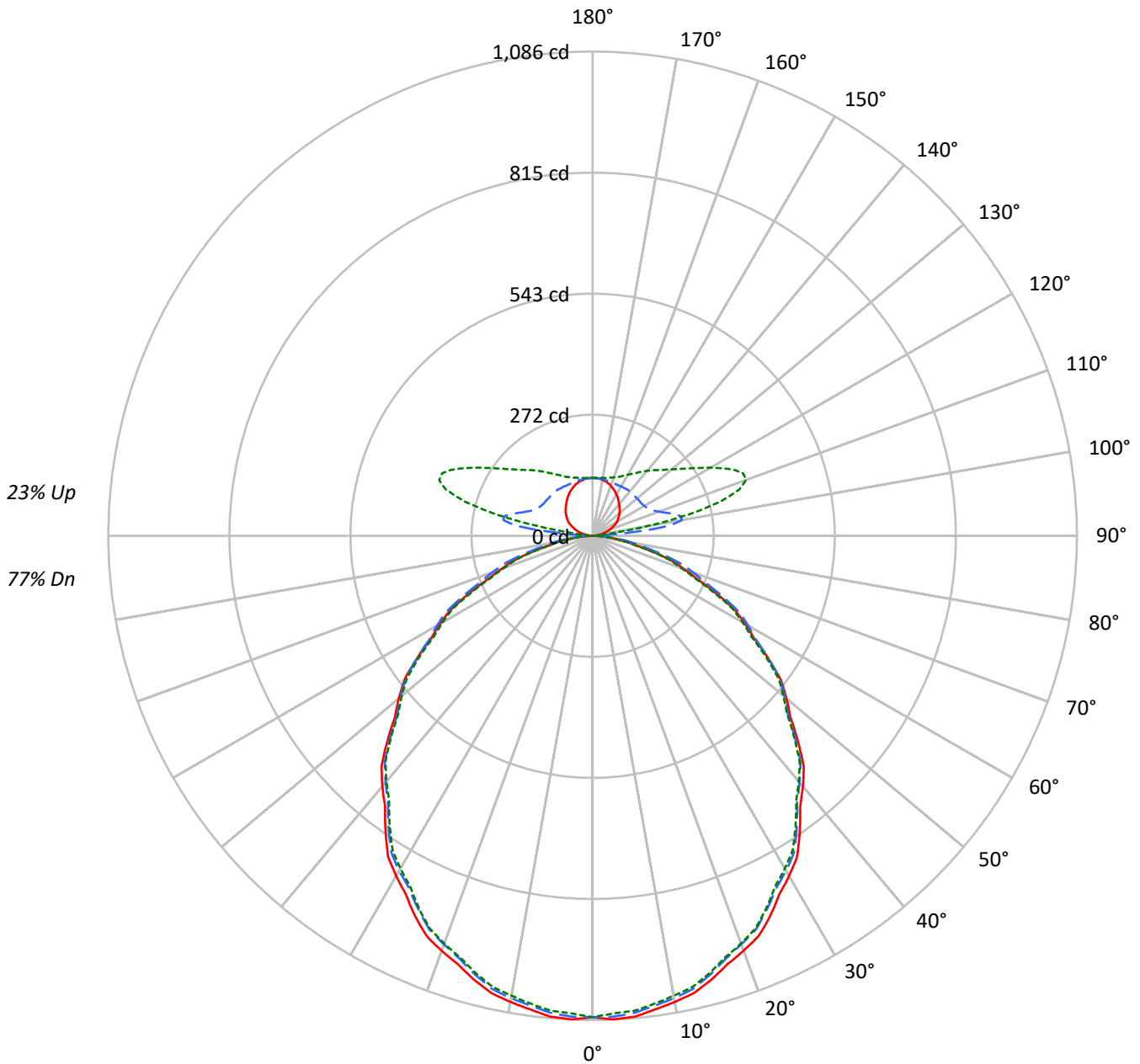
Lumens per Lamp: N/A
Luminaire Lumens: 3590.4 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 32.6
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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	80	80	80	77																
1	104	99	95	92	99	95	91	88	86	84	81	79	77	75	71	70	68	68	68	68	65																
2	95	87	81	75	90	83	77	73	76	71	67	69	66	63	63	60	58	58	58	58	54																
3	87	77	69	63	82	73	66	61	67	62	57	61	57	53	56	52	49	49	49	49	46																
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	50	46	43	43	43	43	40																
5	73	61	52	46	69	58	51	45	54	47	42	49	44	40	45	41	37	37	37	37	35																
6	67	55	46	40	64	53	45	39	48	42	37	45	39	35	41	36	33	33	33	33	30																
7	62	50	41	35	59	48	40	35	44	38	33	41	35	31	37	33	29	29	29	29	27																
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	30	26	26	26	26	24																
9	54	41	34	28	52	40	33	28	37	31	26	34	29	25	32	27	24	24	24	24	22																
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	30	25	22	22	22	22	20																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9962	9962	9962
5°	10026	9948	9904
10°	9947	9867	9814
15°	9842	9732	9696
20°	9724	9574	9556
25°	9588	9414	9384
30°	9386	9244	9183
35°	9120	8989	8936
40°	8835	8696	8662
45°	8490	8379	8340
50°	8140	8071	8015
55°	7758	7758	7636
60°	7287	7427	7163
65°	6667	6999	6501
70°	5873	6442	5724
75°	5023	5764	4880
80°	3895	4856	3948
85°	2509	3737	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	2.8
10°-20°	287.1	8.0
20°-30°	425.8	11.9
30°-40°	498.3	13.9
40°-50°	496.0	13.8
50°-60°	428.3	11.9
60°-70°	308.3	8.6
70°-80°	161.7	4.5
80°-90°	40.4	1.1
90°-100°	51.7	1.4
100°-110°	179.8	5.0
110°-120°	174.2	4.9
120°-130°	136.6	3.8
130°-140°	108.2	3.0
140°-150°	83.5	2.3
150°-160°	59.8	1.7
160°-170°	36.6	1.0
170°-180°	12.4	0.3
0°-30°	814.6	22.7
0°-40°	1312.8	36.6
0°-60°	2237.2	62.3
0°-90°	2747.6	76.5
90°-120°	405.7	11.3
90°-150°	734.0	20.4
90°-180°	843.0	23.5
0°-180°	3590.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1083	1070	1074	1071	1069	103
15°	1030	1017	1019	1017	1015	290
25°	942	926	925	919	922	433
35°	810	798	798	791	793	506
45°	651	645	642	640	639	502
55°	482	482	482	476	475	430
65°	305	315	321	308	298	303
75°	141	154	162	151	137	151
85°	24	31	35	33	31	31
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°	1079.7	1079.7	1079.7	1079.7	1079.7
2.5°	1085.9	1076.9	1079.7	1077.4	1072.2
5°	1082.6	1070.5	1074.1	1071.2	1069.4
7.5°	1071.7	1060.5	1063.0	1060.1	1058.9
10°	1061.7	1050.6	1053.2	1049.4	1047.5
12.5°	1050.4	1038.4	1041.1	1037.1	1036.1
15°	1030.4	1017.2	1018.9	1016.9	1015.1
17.5°	1007.1	994.0	994.2	991.2	990.7
20°	990.4	976.4	975.1	971.3	973.3
22.5°	972.2	957.4	956.1	950.8	953.5
25°	941.8	926.0	924.8	919.1	921.8
27.5°	906.8	891.3	891.3	883.3	886.2
30°	881.0	866.1	867.7	858.2	862.0
32.5°	853.6	840.2	841.0	831.6	835.3
35°	809.7	798.5	798.1	790.6	793.4
37.5°	764.7	754.9	753.3	749.0	749.6
40°	733.6	725.1	722.0	719.2	719.2
42.5°	700.7	693.2	690.1	687.9	687.3
45°	650.7	645.1	642.2	640.3	639.2
47.5°	601.2	596.1	593.5	592.2	591.2
50°	567.1	563.3	562.3	559.3	558.4
52.5°	532.8	530.6	529.5	525.9	524.9
55°	482.3	481.5	482.3	475.7	474.7
57.5°	429.8	431.3	434.4	425.4	423.1
60°	394.9	398.5	402.5	392.0	388.2
62.5°	358.9	365.0	370.5	358.4	353.0
65°	305.4	314.7	320.6	308.0	297.8
67.5°	253.7	265.1	272.2	258.7	247.1
70°	217.7	230.9	238.8	225.1	212.2
72.5°	186.6	201.2	207.6	194.7	181.7
75°	140.9	153.8	161.7	150.9	136.9
77.5°	99.9	112.2	118.7	109.4	97.8
80°	73.3	86.2	91.4	83.4	74.3
82.5°	51.9	62.8	66.3	61.5	55.1
85°	23.7	31.2	35.3	33.3	31.3
87.5°	6.1	11.3	14.4	14.4	15.2
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)