

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: P845301

Luminaire Tested: **SQ4P-PW1-150U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845301
REPORT IS A COMBINATION OF REPORTS P700151 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PW1-150U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

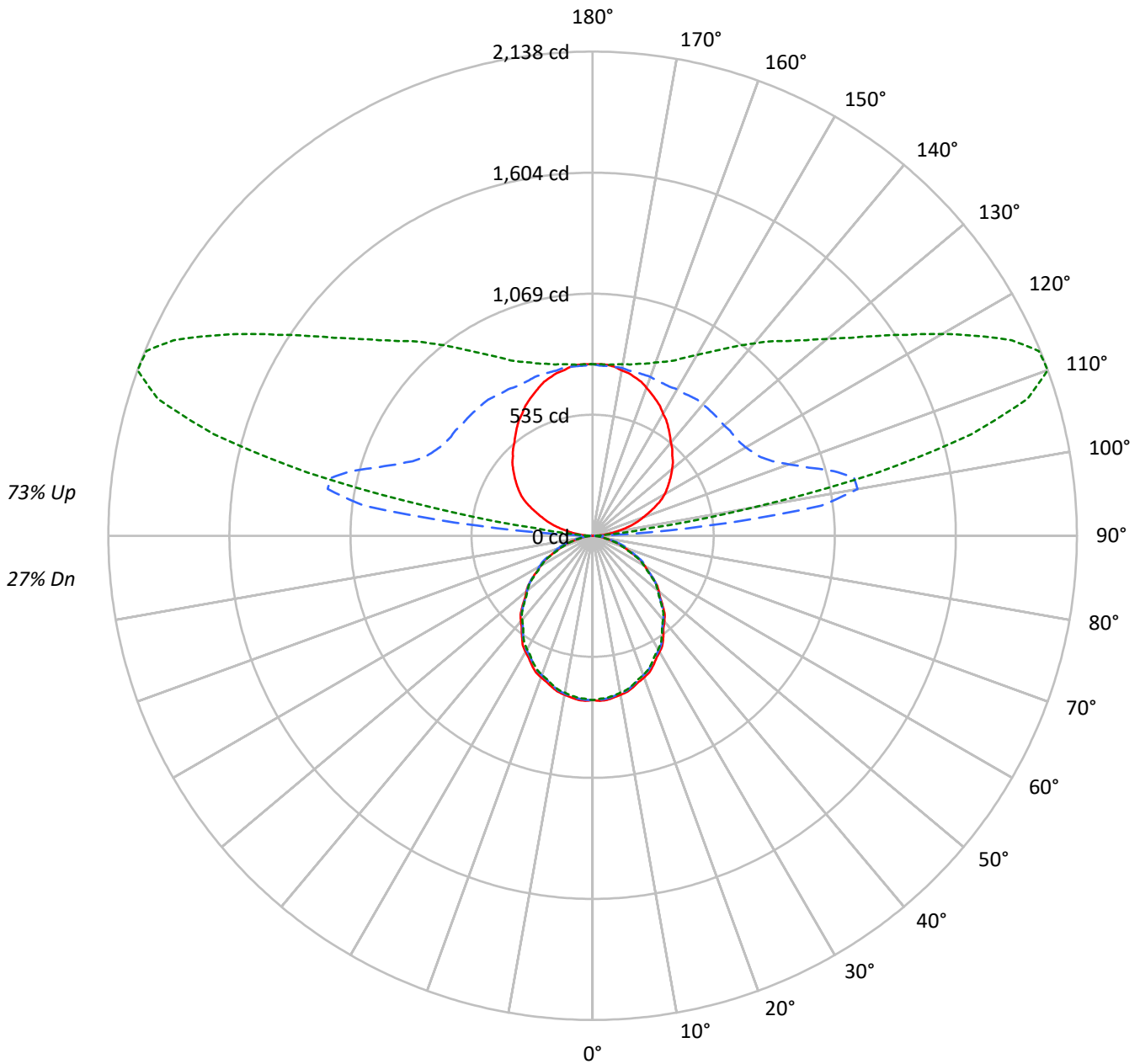
Lumens per Lamp: N/A
Luminaire Lumens: 6766.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27																			
1	93	89	85	82	83	79	76	73	62	60	58	46	45	43	31	31	30	23																			
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	28	26	25	19																			
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	24	23	21	16																			
4	70	60	52	47	63	54	47	42	42	38	34	32	29	26	22	20	18	14																			
5	64	53	46	40	57	48	41	36	38	33	29	28	25	23	20	18	16	12																			
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11																			
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10																			
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9																			
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	14	12	10	8																			
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7																			

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	1.0
10°-20°	192.9	2.9
20°-30°	286.1	4.2
30°-40°	334.8	4.9
40°-50°	333.3	4.9
50°-60°	287.8	4.3
60°-70°	207.2	3.1
70°-80°	108.6	1.6
80°-90°	28.8	0.4
90°-100°	301.6	4.5
100°-110°	1049.5	15.5
110°-120°	1016.6	15.0
120°-130°	797.5	11.8
130°-140°	631.2	9.3
140°-150°	487.1	7.2
150°-160°	349.2	5.2
160°-170°	213.6	3.2
170°-180°	72.2	1.1
0°-30°	547.4	8.1
0°-40°	882.2	13.0
0°-60°	1503.3	22.2
0°-90°	1847.9	27.3
90°-120°	2367.8	35.0
90°-150°	4283.6	63.3
90°-180°	4919.0	72.7
0°-180°	6766.5	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°	11	17	17	11	6	8
95°	51	175	509	130	79	54
105°	175	249	1103	1861	1731	184
115°	305	368	820	1731	2042	302
125°	413	509	764	1290	1538	370
135°	498	560	758	1075	1216	386
145°	583	622	752	928	1007	364
155°	662	684	741	826	854	305
165°	724	730	747	780	786	204
175°	758	758	752	764	758	72
180°	758	758	758	758	758	



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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°	11.3	17.0	17.0	11.3	5.6
92.5°	28.3	84.8	79.2	33.9	28.3
95°	50.9	175.3	509.0	130.0	79.2
97.5°	79.2	198.0	1018.1	463.8	248.9
100°	107.5	209.2	1187.8	1114.2	718.3
102.5°	141.4	226.3	1182.1	1566.7	1289.5
105°	175.3	248.9	1102.9	1860.8	1730.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.4	333.7	859.7	1872.1	2132.2
115°	305.4	367.7	820.1	1730.7	2041.8
117.5°	339.4	407.2	797.4	1600.6	1911.7
120°	367.7	441.1	780.5	1476.2	1781.6
122.5°	390.2	475.1	769.2	1374.4	1651.5
125°	412.9	509.0	763.5	1289.5	1538.4
127.5°	435.5	531.6	763.5	1227.3	1436.6
130°	458.2	543.0	757.9	1165.1	1351.7
132.5°	480.8	548.6	757.9	1119.8	1278.2
135°	497.7	559.9	757.9	1074.6	1216.0
137.5°	520.4	571.3	757.9	1035.1	1165.1
140°	537.3	588.2	757.9	995.4	1108.5
142.5°	559.9	605.2	757.9	955.9	1057.6
145°	582.6	622.1	752.2	927.6	1006.8
147.5°	605.2	639.1	746.6	899.3	961.5
150°	622.1	656.1	746.6	871.0	921.9
152.5°	644.8	673.0	740.9	842.7	888.0
155°	661.8	684.4	740.9	825.7	854.0
157.5°	678.7	701.3	740.9	808.8	831.5
160°	695.7	712.6	746.6	797.4	814.4
162.5°	712.6	724.0	746.6	786.2	797.4
165°	724.0	729.6	746.6	780.5	786.2
167.5°	735.2	740.9	746.6	774.9	774.9
170°	740.9	746.6	752.2	769.2	769.2
172.5°	752.2	752.2	752.2	763.5	763.5
175°	757.9	757.9	752.2	763.5	757.9
177.5°	757.9	757.9	752.2	763.5	757.9
180°	757.9	757.9	757.9	757.9	757.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	209.2	277.2	1001.1	1990.8	2013.5
110°	237.5	305.4	921.9	1973.9	2137.9



(END OF REPORT)