

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: P845052

Luminaire Tested: **SQ4P-PC3-150U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845052
REPORT IS A COMBINATION OF REPORTS P700140 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-150U-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

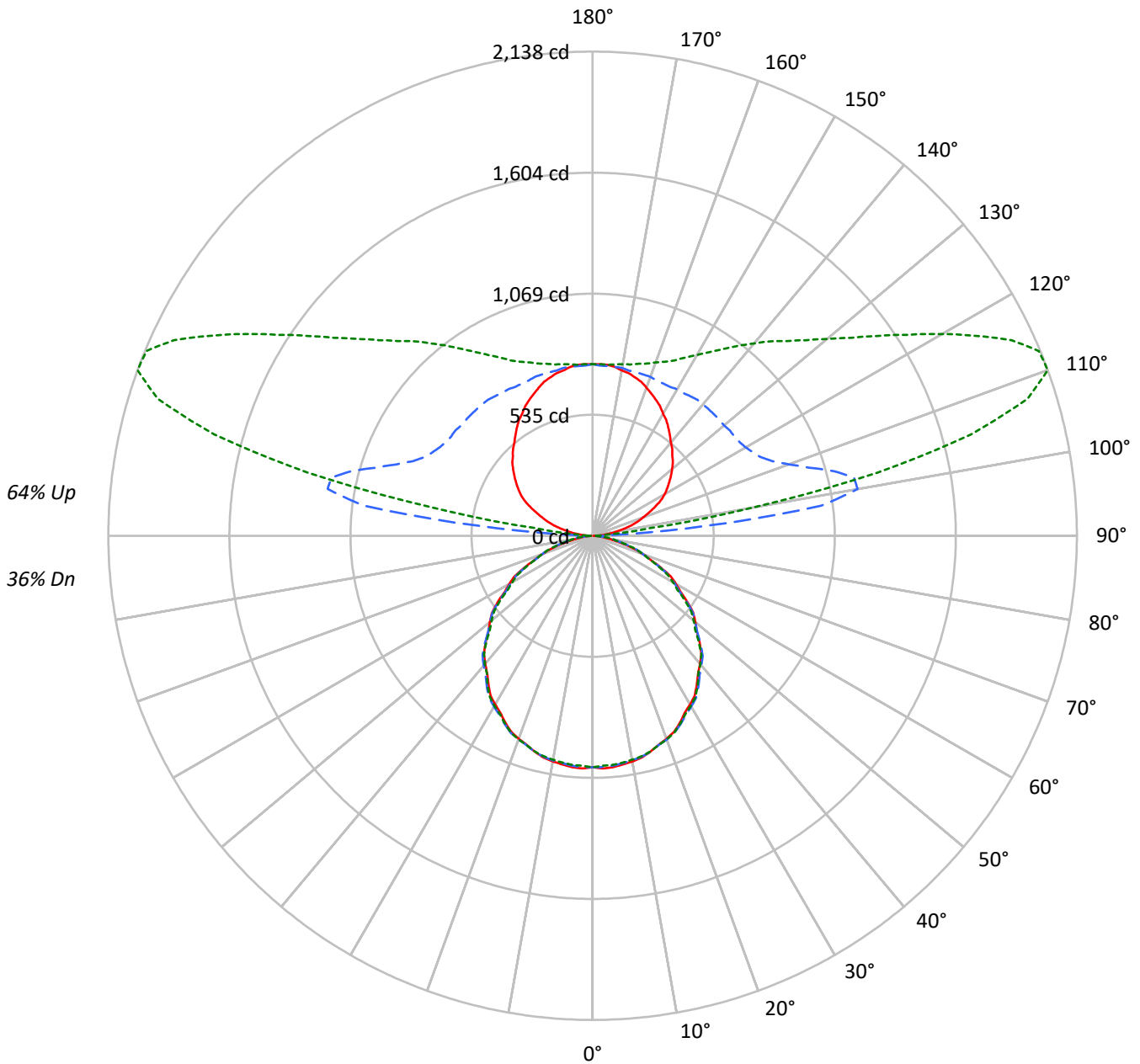
Lumens per Lamp: N/A
Luminaire Lumens: 7710.4 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 68.6
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					20					
RC	80					70					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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36								
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31								
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31	26								
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22								
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19								
5	66	54	47	41	59	50	43	38	41	35	31	32	28	25	24	22	20	16								
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	22	19	17	14								
7	56	44	36	31	50	40	33	28	33	28	24	26	22	20	20	17	15	12								
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11								
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10								
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9431	9431	9431
5°	9503	9441	9407
10°	9480	9435	9408
15°	9430	9430	9421
20°	9368	9395	9395
25°	9280	9346	9318
30°	9165	9277	9237
35°	9030	9168	9104
40°	8880	9005	8916
45°	8720	8781	8644
50°	8491	8491	8355
55°	8223	8115	7993
60°	7826	7667	7543
65°	7230	7086	7023
70°	6334	6380	6361
75°	5094	5636	5671
80°	3624	4777	4830
85°	2212	4012	4012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	1.3
10°-20°	277.6	3.6
20°-30°	420.4	5.5
30°-40°	504.1	6.5
40°-50°	513.9	6.7
50°-60°	448.6	5.8
60°-70°	321.2	4.2
70°-80°	165.5	2.1
80°-90°	43.7	0.6
90°-100°	301.6	3.9
100°-110°	1049.5	13.6
110°-120°	1016.6	13.2
120°-130°	797.5	10.3
130°-140°	631.2	8.2
140°-150°	487.1	6.3
150°-160°	349.2	4.5
160°-170°	213.6	2.8
170°-180°	72.2	0.9
0°-30°	794.8	10.3
0°-40°	1298.9	16.8
0°-60°	2261.4	29.3
0°-90°	2791.8	36.2
90°-120°	2367.8	30.7
90°-150°	4283.6	55.6
90°-180°	4919.0	63.8
0°-180°	7710.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1026	1016	1019	1016	1016	97
15°	987	979	987	987	986	278
25°	912	905	918	915	915	420
35°	802	800	814	808	808	501
45°	668	666	673	664	662	514
55°	511	505	504	497	497	456
65°	331	324	325	322	322	328
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
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°	1022.2	1022.2	1022.2	1022.2	1022.2
2.5°	1028.4	1019.4	1022.2	1019.9	1016.2
5°	1026.1	1015.8	1019.4	1016.5	1015.7
7.5°	1018.6	1008.5	1013.3	1011.2	1010.2
10°	1011.9	1001.6	1007.1	1005.2	1004.2
12.5°	1002.8	993.3	999.5	997.7	997.4
15°	987.3	978.9	987.3	987.3	986.3
17.5°	967.7	960.1	969.0	969.6	969.0
20°	954.1	945.8	956.9	956.0	956.9
22.5°	937.5	930.7	942.5	940.1	941.1
25°	911.6	905.0	918.1	915.3	915.3
27.5°	880.9	876.1	890.5	887.4	887.4
30°	860.3	855.8	870.8	867.0	867.0
32.5°	837.7	834.6	848.9	844.3	844.3
35°	801.7	799.8	814.0	808.3	808.3
37.5°	764.6	762.9	775.8	769.0	766.7
40°	737.3	736.5	747.7	740.3	740.3
42.5°	710.0	709.1	719.0	709.9	709.9
45°	668.3	666.3	673.0	664.4	662.5
47.5°	622.6	620.8	624.9	615.5	614.6
50°	591.6	589.7	591.6	583.0	582.1
52.5°	559.8	556.3	556.7	548.2	548.0
55°	511.2	504.7	504.5	496.9	496.9
57.5°	459.6	451.1	452.0	445.4	444.4
60°	424.1	414.8	415.5	409.8	408.8
62.5°	389.2	378.5	380.6	374.3	374.2
65°	331.2	323.9	324.6	321.7	321.7
67.5°	275.6	268.7	273.8	271.5	271.3
70°	234.8	230.1	236.5	236.5	235.8
72.5°	196.9	196.7	204.8	204.8	205.4
75°	142.9	149.4	158.1	159.1	159.1
77.5°	95.5	106.9	116.5	116.8	116.7
80°	68.2	81.1	89.9	91.9	90.9
82.5°	46.1	59.9	67.3	69.0	68.2
85°	20.9	32.0	37.9	38.9	37.9
87.5°	6.0	12.7	15.2	15.2	13.7
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)