

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: P844984

Luminaire Tested: **SQ4P-PC3-025U-100D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844984
REPORT IS A COMBINATION OF REPORTS P700169 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-025U-100D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

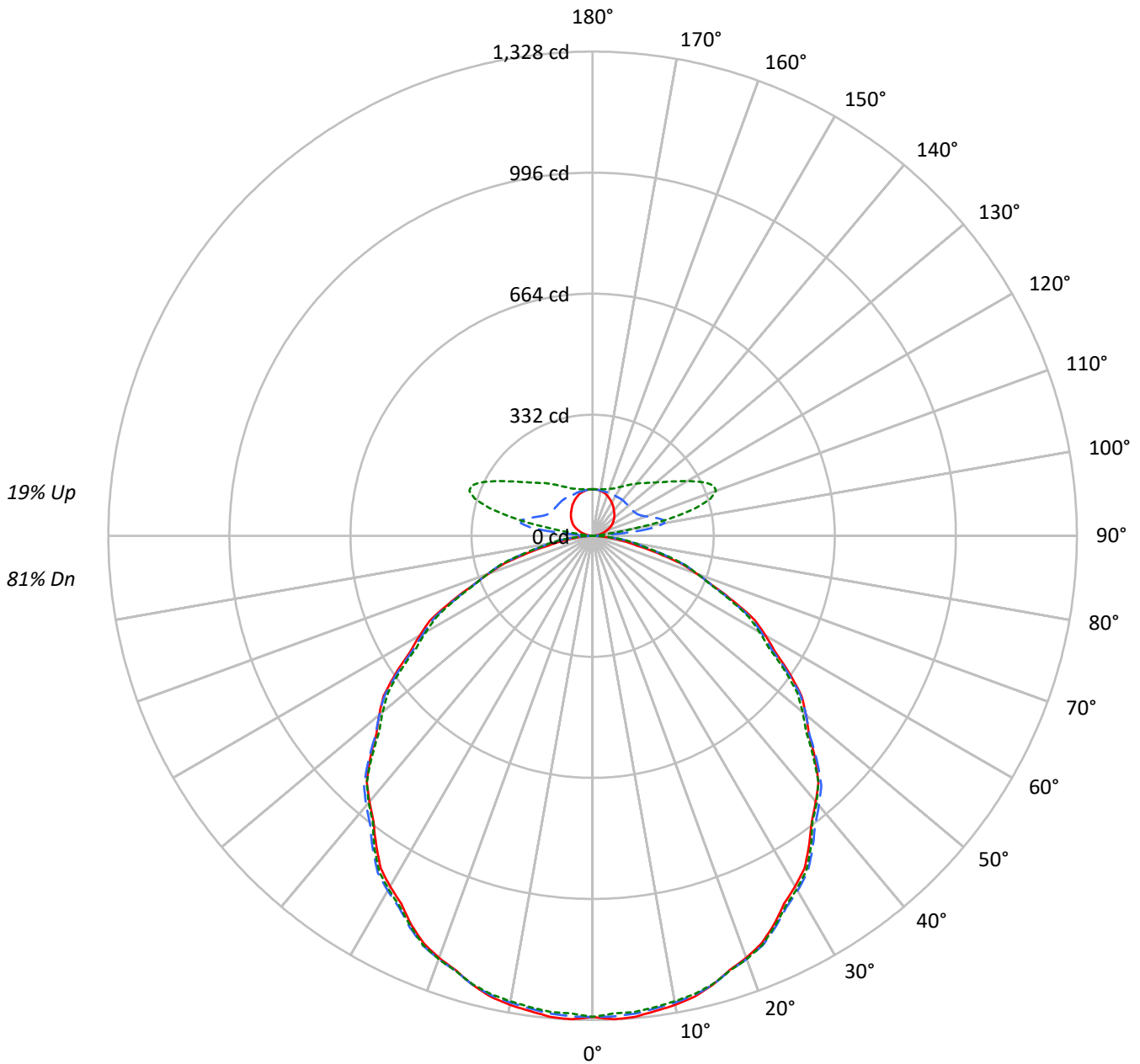
Lumens per Lamp: N/A
Luminaire Lumens: 4429.8 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 41.9
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

TEST NUMBER: P844984

CATALOG NUMBER: SQ4P-PC3-025U-100D-B50-1D-UNV

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81			
1	105	100	96	93	100	96	93	89	89	86	83	82	79	77	75	74	72	69			
2	96	88	81	76	91	84	78	74	78	73	69	72	68	65	66	63	61	58			
3	87	77	69	63	83	74	67	62	69	63	58	63	59	55	59	55	52	49			
4	80	68	60	54	76	66	58	52	61	55	50	57	51	47	52	48	44	42			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	47	42	39	36			
6	68	55	46	40	65	53	45	39	49	43	38	46	40	36	43	38	34	32			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28			
8	58	45	37	31	56	44	36	31	41	34	30	38	33	28	36	31	27	25			
9	54	42	34	28	52	40	33	28	38	31	27	35	30	26	33	28	24	22			
10	51	38	31	26	49	37	30	25	35	28	24	33	27	23	31	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12174	12174	12174
5°	12268	12188	12143
10°	12238	12181	12145
15°	12174	12174	12160
20°	12093	12129	12129
25°	11979	12065	12029
30°	11832	11976	11923
35°	11656	11834	11752
40°	11462	11626	11508
45°	11256	11336	11160
50°	10962	10962	10787
55°	10613	10476	10320
60°	10101	9900	9739
65°	9335	9152	9069
70°	8176	8238	8211
75°	6577	7276	7322
80°	4681	6169	6232
85°	2848	5166	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	2.8
10°-20°	358.4	8.1
20°-30°	542.7	12.3
30°-40°	650.7	14.7
40°-50°	663.5	15.0
50°-60°	579.2	13.1
60°-70°	414.6	9.4
70°-80°	213.6	4.8
80°-90°	54.3	1.2
90°-100°	50.8	1.1
100°-110°	176.7	4.0
110°-120°	171.2	3.9
120°-130°	134.2	3.0
130°-140°	106.3	2.4
140°-150°	82.0	1.9
150°-160°	58.8	1.3
160°-170°	36.0	0.8
170°-180°	12.2	0.3
0°-30°	1026.0	23.2
0°-40°	1676.7	37.9
0°-60°	2919.3	65.9
0°-90°	3601.8	81.3
90°-120°	398.6	9.0
90°-150°	721.1	16.3
90°-180°	828.0	18.7
0°-180°	4429.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1325	1311	1316	1312	1311	126
15°	1274	1264	1274	1274	1273	359
25°	1177	1168	1185	1182	1182	542
35°	1035	1032	1051	1043	1043	647
45°	863	860	869	858	855	664
55°	660	652	651	642	642	588
65°	428	418	419	415	415	423
75°	184	193	204	205	205	199
85°	27	41	49	50	49	37
90°	2	3	3	2	1	2
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



TEST NUMBER: P844984

CATALOG NUMBER: SQ4P-PC3-025U-100D-B50-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.5	1319.5	1319.5	1319.5	1319.5
2.5°	1327.5	1316.0	1319.5	1316.6	1311.7
5°	1324.6	1311.3	1316.0	1312.2	1311.1
7.5°	1314.9	1301.8	1308.0	1305.4	1304.2
10°	1306.3	1292.9	1300.2	1297.6	1296.4
12.5°	1294.5	1282.3	1290.3	1287.9	1287.5
15°	1274.5	1263.7	1274.5	1274.5	1273.1
17.5°	1249.2	1239.5	1250.9	1251.7	1250.9
20°	1231.7	1221.0	1235.3	1234.0	1235.3
22.5°	1210.2	1201.4	1216.8	1213.5	1214.9
25°	1176.7	1168.3	1185.2	1181.6	1181.6
27.5°	1137.1	1131.0	1149.6	1145.6	1145.6
30°	1110.6	1104.7	1124.1	1119.2	1119.2
32.5°	1081.3	1077.3	1095.9	1090.0	1090.0
35°	1034.9	1032.5	1050.7	1043.4	1043.4
37.5°	987.0	984.9	1001.5	992.7	989.7
40°	951.7	950.7	965.3	955.5	955.5
42.5°	916.6	915.4	928.2	916.4	916.4
45°	862.7	860.2	868.8	857.7	855.3
47.5°	803.7	801.4	806.7	794.7	793.4
50°	763.7	761.1	763.7	752.6	751.5
52.5°	722.6	718.2	718.6	707.6	707.4
55°	659.8	651.5	651.3	641.6	641.6
57.5°	593.3	582.4	583.4	575.0	573.7
60°	547.4	535.4	536.5	529.0	527.8
62.5°	502.3	488.7	491.3	483.2	483.0
65°	427.6	418.0	419.2	415.4	415.4
67.5°	355.8	346.9	353.4	350.4	350.2
70°	303.1	296.9	305.4	305.4	304.4
72.5°	254.2	254.0	264.3	264.3	265.1
75°	184.5	192.9	204.1	205.4	205.4
77.5°	123.2	137.9	150.4	150.8	150.6
80°	88.1	104.7	116.1	118.6	117.3
82.5°	59.6	77.3	86.7	89.1	88.1
85°	26.9	41.3	48.8	50.2	48.8
87.5°	7.8	16.5	19.6	19.6	17.7
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



TEST NUMBER: P844984

CATALOG NUMBER: SQ4P-PC3-025U-100D-B50-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)