

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: P845198

Luminaire Tested: **SQ4P-PR1-100U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845198
REPORT IS A COMBINATION OF REPORTS P700093 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-100U-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

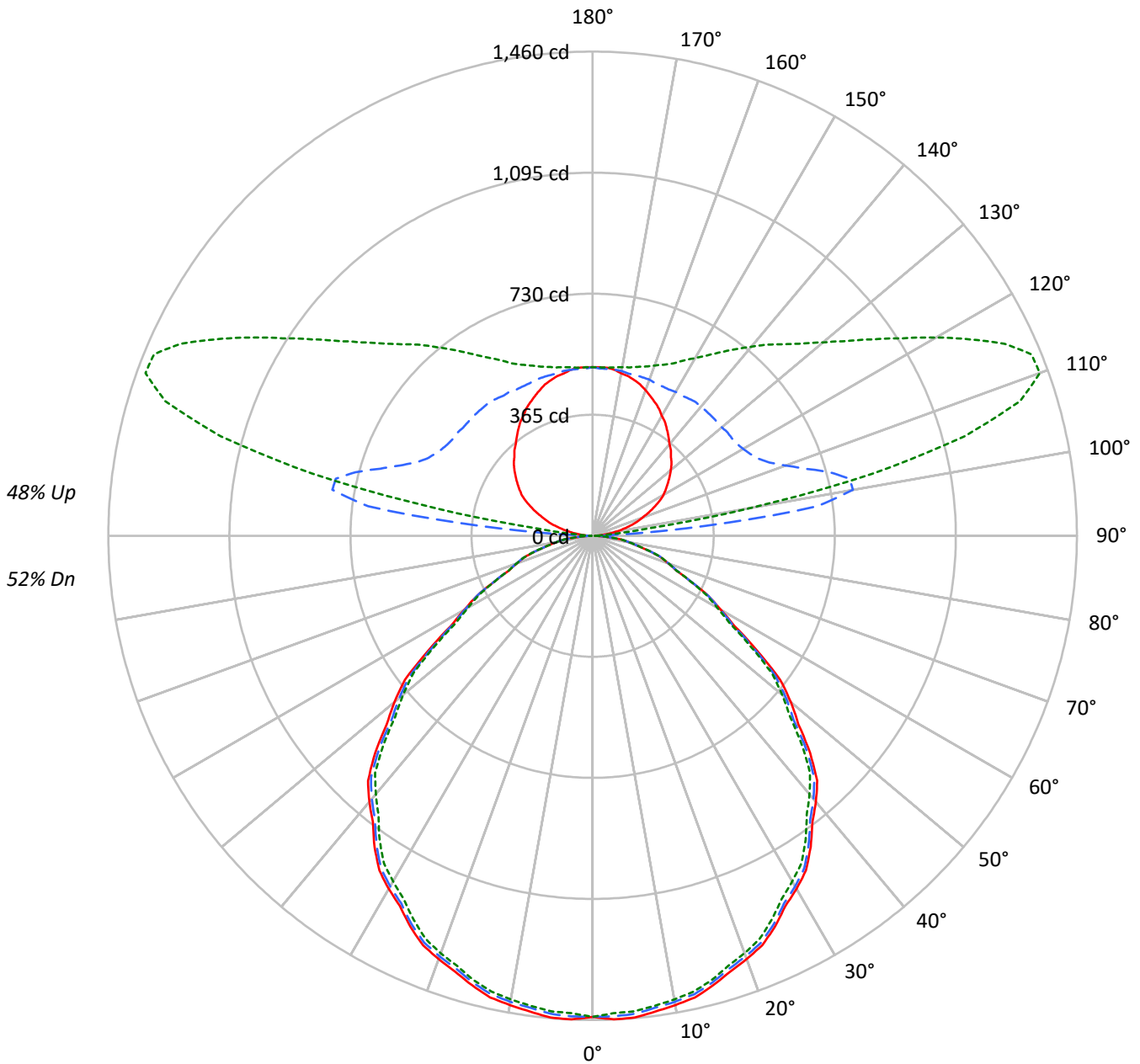
Lumens per Lamp: N/A
Luminaire Lumens: 6928.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.9
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: P845198

CATALOG NUMBER: SQ4P-PR1-100U-100D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845198

CATALOG NUMBER: SQ4P-PR1-100U-100D-B35-1D-UNV

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52																			
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45																			
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	42	38																			
3	82	73	66	60	76	68	62	57	58	54	50	49	46	43	41	39	36	32																			
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28																			
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	33	30	28	25																			
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	30	27	24	22																			
7	59	47	39	34	55	44	37	32	38	33	28	33	28	25	28	24	22	19																			
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	20	17																			
9	51	39	32	27	47	37	30	25	32	26	23	28	23	20	24	20	18	16																			
10	48	36	29	24	44	34	27	23	29	24	20	26	21	18	22	18	16	14																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13384	13384	13384
5°	13505	13401	13332
10°	13461	13368	13298
15°	13404	13320	13247
20°	13335	13249	13152
25°	13241	13154	13000
30°	13098	13007	12819
35°	12906	12792	12610
40°	12610	12475	12249
45°	12099	11884	11641
50°	11191	10922	10706
55°	9767	9548	9347
60°	8230	8163	8001
65°	7119	7147	7091
70°	6536	6571	6571
75°	6277	6277	6327
80°	5908	5972	5908
85°	4764	5293	5293



TEST NUMBER: P845198

CATALOG NUMBER: SQ4P-PR1-100U-100D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.0
10°-20°	392.5	5.7
20°-30°	592.0	8.5
30°-40°	705.4	10.2
40°-50°	695.4	10.0
50°-60°	531.5	7.7
60°-70°	328.9	4.7
70°-80°	186.8	2.7
80°-90°	58.1	0.8
90°-100°	202.4	2.9
100°-110°	704.3	10.2
110°-120°	682.2	9.8
120°-130°	535.2	7.7
130°-140°	423.6	6.1
140°-150°	326.9	4.7
150°-160°	234.3	3.4
160°-170°	143.3	2.1
170°-180°	48.5	0.7
0°-30°	1121.7	16.2
0°-40°	1827.1	26.4
0°-60°	3054.0	44.1
0°-90°	3627.8	52.4
90°-120°	1588.9	22.9
90°-150°	2874.6	41.5
90°-180°	3301.0	47.6
0°-180°	6928.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1458	1442	1447	1442	1440	138
15°	1403	1389	1394	1390	1387	396
25°	1301	1285	1292	1278	1277	599
35°	1146	1132	1136	1121	1120	715
45°	927	915	911	894	892	710
55°	607	598	594	584	581	544
65°	326	324	327	325	325	330
75°	176	176	176	178	178	186
85°	45	47	50	50	50	52
90°	8	11	11	8	4	6
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



TEST NUMBER: P845198

CATALOG NUMBER: SQ4P-PR1-100U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.6	1450.6	1450.6	1450.6	1450.6
2.5°	1459.7	1447.0	1450.6	1447.6	1440.7
5°	1458.2	1442.2	1447.0	1441.8	1439.5
7.5°	1447.0	1431.3	1436.0	1430.9	1429.6
10°	1436.8	1422.2	1426.9	1422.0	1419.4
12.5°	1425.9	1410.4	1416.0	1409.9	1407.6
15°	1403.3	1388.6	1394.5	1389.5	1386.9
17.5°	1378.3	1362.6	1368.6	1362.8	1359.5
20°	1358.2	1343.6	1349.4	1340.8	1339.5
22.5°	1336.2	1321.7	1327.4	1315.8	1315.6
25°	1300.7	1284.8	1292.1	1278.3	1277.0
27.5°	1258.5	1243.9	1249.7	1235.7	1234.4
30°	1229.5	1214.8	1220.9	1205.8	1203.3
32.5°	1196.5	1182.9	1187.9	1172.8	1171.2
35°	1145.9	1132.3	1135.7	1120.8	1119.6
37.5°	1088.2	1075.8	1077.8	1061.3	1060.2
40°	1047.0	1034.9	1035.8	1018.4	1017.0
42.5°	1002.2	989.9	988.8	971.4	970.2
45°	927.3	915.0	910.8	894.5	892.2
47.5°	841.8	829.4	821.9	808.6	806.8
50°	779.7	767.4	760.9	749.6	745.9
52.5°	712.7	700.5	695.1	684.7	681.1
55°	607.2	597.5	593.6	583.5	581.1
57.5°	507.0	500.5	499.3	489.6	488.5
60°	446.0	442.4	442.4	433.6	433.6
62.5°	394.2	391.3	393.3	387.5	386.6
65°	326.1	323.7	327.4	324.8	324.8
67.5°	272.4	272.4	274.6	273.5	273.5
70°	242.3	242.3	243.6	243.6	243.6
72.5°	215.4	214.5	217.7	217.5	216.7
75°	176.1	176.1	176.1	177.5	177.5
77.5°	137.2	137.4	138.5	138.3	137.2
80°	111.2	112.4	112.4	111.2	111.2
82.5°	85.3	86.4	86.4	86.1	85.3
85°	45.0	47.4	50.0	50.0	50.0
87.5°	12.9	16.8	20.1	20.1	19.0
90°	7.6	11.4	11.4	7.6	3.8
92.5°	19.0	57.0	53.1	22.8	19.0
95°	34.2	117.6	341.6	87.3	53.1
97.5°	53.1	132.9	683.2	311.3	167.0
100°	72.1	140.4	797.0	747.7	482.0
102.5°	94.9	151.8	793.2	1051.4	865.3
105°	117.6	167.0	740.1	1248.7	1161.5



TEST NUMBER: P845198

CATALOG NUMBER: SQ4P-PR1-100U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)