

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: P845360

Luminaire Tested: **SQ4P-WB-100U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845360
REPORT IS A COMBINATION OF REPORTS P700099 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-100U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

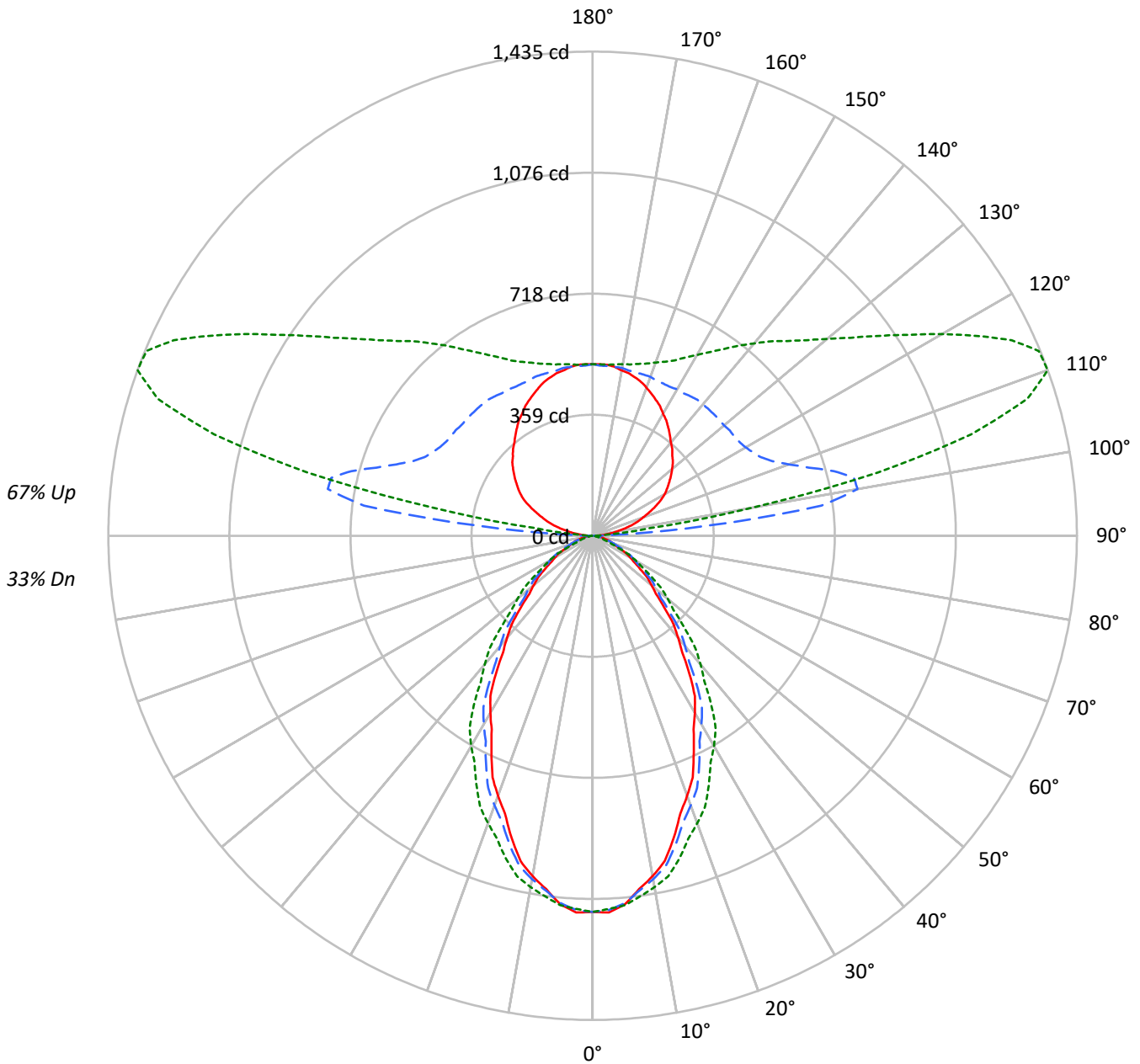
Lumens per Lamp: N/A
Luminaire Lumens: 4926.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 42.8
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

TEST NUMBER: P845360

CATALOG NUMBER: SQ4P-WB-100U-050D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845360

CATALOG NUMBER: SQ4P-WB-100U-050D-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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	41	41	41	33																			
1	95	91	87	84	85	82	79	77	66	64	62	51	50	48	37	36	36	29																			
2	87	80	75	70	78	73	68	64	59	55	53	45	43	42	33	32	31	26																			
3	80	71	64	59	72	65	59	54	52	48	45	41	38	36	30	29	27	23																			
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	24	20																			
5	68	57	49	44	61	52	45	41	42	38	34	34	30	28	25	23	22	18																			
6	62	51	44	38	56	47	40	36	38	34	30	31	27	25	23	21	20	16																			
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15																			
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	20	18	16	14																			
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13																			
10	47	36	29	24	42	33	27	23	27	23	20	22	19	17	17	15	14	12																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10285	10285	10285
5°	10157	10121	10179
10°	9596	9683	9907
15°	8858	9065	9470
20°	8045	8347	8898
25°	7216	7609	8292
30°	6452	6874	7660
35°	5641	6048	6916
40°	4748	5126	5986
45°	3918	4258	4997
50°	3271	3567	4162
55°	2776	3059	3437
60°	2375	2653	2744
65°	1891	2231	1770
70°	1675	1743	1082
75°	1551	1412	663
80°	1429	1302	574
85°	1281	1196	466



TEST NUMBER: P845360

CATALOG NUMBER: SQ4P-WB-100U-050D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	2.1
10°-20°	266.0	5.4
20°-30°	344.5	7.0
30°-40°	337.3	6.8
40°-50°	258.2	5.2
50°-60°	172.1	3.5
60°-70°	93.9	1.9
70°-80°	39.1	0.8
80°-90°	12.3	0.2
90°-100°	202.4	4.1
100°-110°	704.3	14.3
110°-120°	682.2	13.8
120°-130°	535.2	10.9
130°-140°	423.6	8.6
140°-150°	326.9	6.6
150°-160°	234.3	4.8
160°-170°	143.3	2.9
170°-180°	48.5	1.0
0°-30°	712.7	14.5
0°-40°	1050.0	21.3
0°-60°	1480.3	30.0
0°-90°	1625.6	33.0
90°-120°	1588.9	32.3
90°-150°	2874.6	58.4
90°-180°	3301.0	67.0
0°-180°	4926.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1097	1086	1093	1095	1099	102
15°	927	924	949	975	992	259
25°	709	711	747	780	814	326
35°	501	503	537	573	614	311
45°	300	306	326	351	383	234
55°	173	180	190	198	214	157
65°	87	94	102	89	81	90
75°	44	44	40	27	19	46
85°	12	12	11	7	4	13
90°	8	11	11	8	4	5
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: P845360

CATALOG NUMBER: SQ4P-WB-100U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1117.5	1107.5	1110.1	1110.0	1106.9
5°	1096.7	1085.6	1092.8	1095.3	1099.1
7.5°	1056.0	1047.7	1060.6	1070.2	1077.9
10°	1024.3	1017.1	1033.6	1047.6	1057.5
12.5°	987.6	981.4	1002.0	1020.5	1033.7
15°	927.4	924.1	949.0	974.7	991.5
17.5°	863.2	861.5	890.1	920.2	941.6
20°	819.4	818.9	850.1	881.6	906.3
22.5°	775.1	776.1	809.0	841.7	870.0
25°	708.8	710.7	747.4	780.0	814.5
27.5°	647.4	648.3	686.2	720.6	757.4
30°	605.6	607.9	645.2	680.8	719.0
32.5°	563.8	566.5	603.0	639.7	678.7
35°	500.8	503.3	537.0	573.2	614.0
37.5°	436.0	439.4	469.4	503.5	543.6
40°	394.2	399.1	425.6	457.8	497.0
42.5°	353.9	359.9	384.5	415.0	450.3
45°	300.3	306.1	326.3	350.9	383.0
47.5°	254.1	260.8	276.2	297.6	324.9
50°	227.9	234.2	248.5	264.2	290.0
52.5°	204.8	211.1	223.8	235.9	258.0
55°	172.6	179.9	190.2	197.6	213.7
57.5°	146.3	153.1	161.5	164.7	174.5
60°	128.7	136.3	143.8	143.4	148.7
62.5°	112.6	119.2	126.5	121.3	121.7
65°	86.6	93.7	102.2	89.3	81.1
67.5°	70.0	71.4	80.1	62.3	52.6
70°	62.1	62.1	64.6	48.2	40.1
72.5°	54.7	54.7	52.5	39.2	30.6
75°	43.5	43.5	39.6	27.2	18.6
77.5°	33.6	33.2	30.3	20.3	13.5
80°	26.9	26.9	24.5	16.0	10.8
82.5°	21.0	21.0	19.0	12.5	7.9
85°	12.1	12.1	11.3	7.3	4.4
87.5°	4.3	4.3	3.9	2.3	2.0
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: P845360

CATALOG NUMBER: SQ4P-WB-100U-050D-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)