

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: P845192

Luminaire Tested: **SQ4P-PR1-100U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845192
REPORT IS A COMBINATION OF REPORTS P700091 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-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

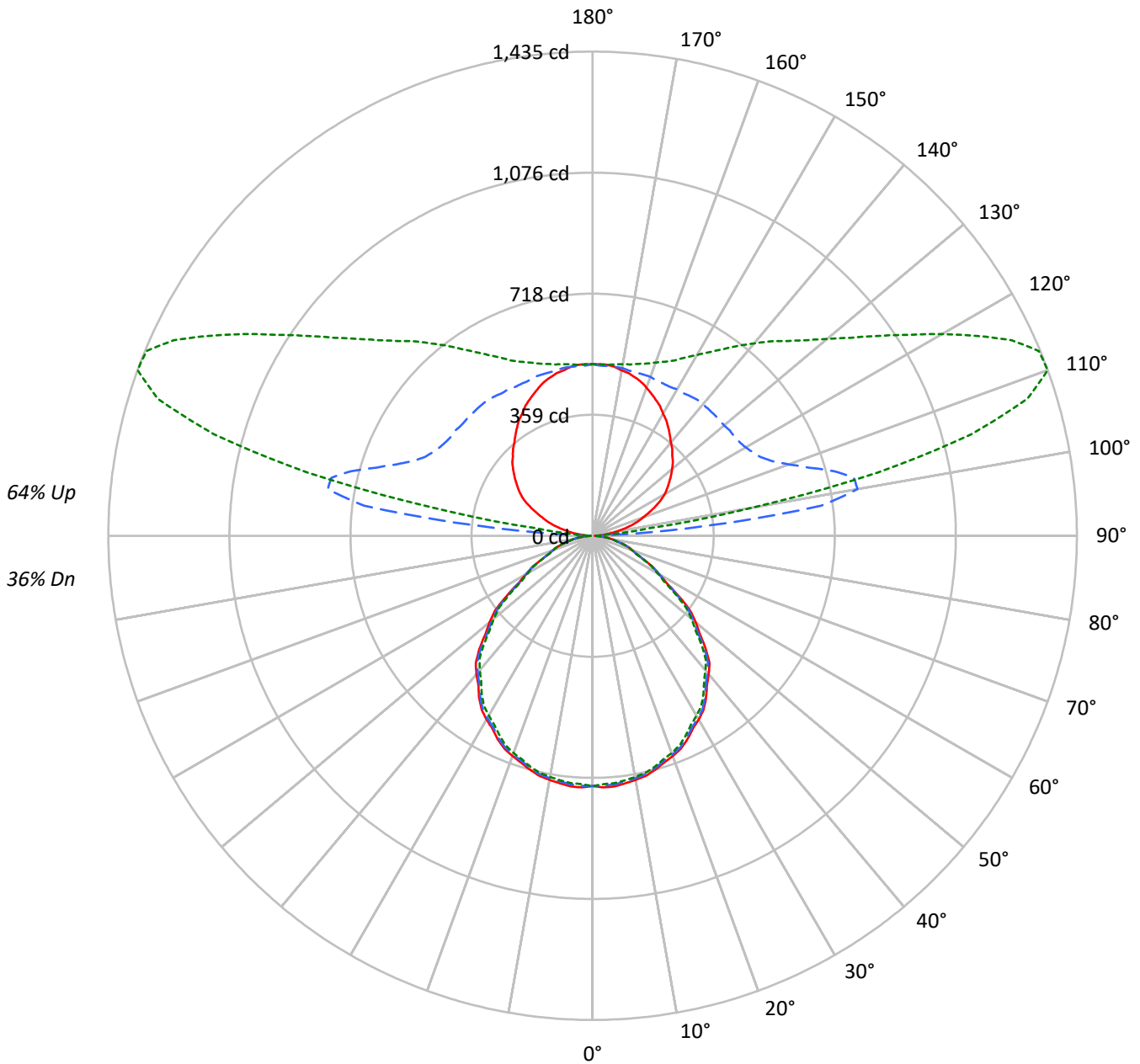
Lumens per Lamp: N/A
Luminaire Lumens: 5156.4 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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: P845192

CATALOG NUMBER: SQ4P-PR1-100U-050D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845192

CATALOG NUMBER: SQ4P-PR1-100U-050D-B35-1D-UNV

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36				36
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	39	38	37	31				31
2	87	79	74	69	78	72	67	63	58	55	52	46	43	41	34	33	31	26				26
3	79	70	63	57	71	64	58	53	52	47	44	41	38	35	30	29	27	22				22
4	72	62	54	49	65	56	50	45	46	41	37	36	33	30	27	25	23	19				19
5	66	55	47	42	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	45	37	31	51	41	34	29	34	28	25	27	23	20	20	18	16	13				13
8	52	40	33	28	47	37	30	26	31	25	22	24	21	18	19	16	14	12				12
9	49	37	30	25	44	34	27	23	28	23	20	22	19	16	17	15	13	11				11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6844	6844	6844
5°	6906	6853	6817
10°	6883	6835	6800
15°	6854	6810	6774
20°	6819	6775	6725
25°	6771	6726	6648
30°	6697	6650	6555
35°	6600	6542	6448
40°	6448	6378	6264
45°	6186	6078	5952
50°	5723	5585	5474
55°	4995	4884	4781
60°	4209	4174	4091
65°	3639	3655	3626
70°	3342	3361	3361
75°	3212	3212	3233
80°	3023	3055	3023
85°	2435	2699	2699



TEST NUMBER: P845192

CATALOG NUMBER: SQ4P-PR1-100U-050D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.4
10°-20°	200.7	3.9
20°-30°	302.7	5.9
30°-40°	360.7	7.0
40°-50°	355.6	6.9
50°-60°	271.8	5.3
60°-70°	168.2	3.3
70°-80°	95.5	1.9
80°-90°	30.3	0.6
90°-100°	202.4	3.9
100°-110°	704.3	13.7
110°-120°	682.2	13.2
120°-130°	535.2	10.4
130°-140°	423.6	8.2
140°-150°	326.9	6.3
150°-160°	234.3	4.5
160°-170°	143.3	2.8
170°-180°	48.5	0.9
0°-30°	573.6	11.1
0°-40°	934.3	18.1
0°-60°	1561.6	30.3
0°-90°	1855.6	36.0
90°-120°	1588.9	30.8
90°-150°	2874.6	55.7
90°-180°	3301.0	64.0
0°-180°	5156.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	746	737	740	737	736	71
15°	718	710	713	710	709	202
25°	665	657	661	654	653	306
35°	586	579	581	573	572	366
45°	474	468	466	457	456	363
55°	310	306	304	298	297	278
65°	167	166	167	166	166	169
75°	90	90	90	91	91	95
85°	23	24	26	26	26	27
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: P845192

CATALOG NUMBER: SQ4P-PR1-100U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	741.8	741.8	741.8	741.8	741.8
2.5°	746.4	739.9	741.8	740.2	736.7
5°	745.7	737.4	739.9	737.3	736.1
7.5°	739.9	731.9	734.3	731.7	731.0
10°	734.7	727.3	729.6	727.1	725.8
12.5°	729.1	721.2	724.0	720.9	719.7
15°	717.6	710.0	713.0	710.4	709.2
17.5°	704.8	696.7	699.8	696.8	695.2
20°	694.5	687.1	690.0	685.6	684.9
22.5°	683.2	675.8	678.7	672.9	672.7
25°	665.1	656.9	660.7	653.7	653.0
27.5°	643.5	636.1	639.0	631.9	631.2
30°	628.6	621.2	624.2	616.5	615.3
32.5°	611.8	604.9	607.4	599.7	598.9
35°	586.0	579.0	580.8	573.1	572.5
37.5°	556.4	550.1	551.1	542.6	542.1
40°	535.4	529.2	529.6	520.7	520.1
42.5°	512.5	506.2	505.6	496.7	496.0
45°	474.1	467.9	465.8	457.4	456.2
47.5°	430.4	424.1	420.3	413.4	412.6
50°	398.7	392.4	389.1	383.3	381.4
52.5°	364.4	358.2	355.4	350.1	348.3
55°	310.5	305.5	303.6	298.4	297.2
57.5°	259.2	256.0	255.3	250.3	249.8
60°	228.1	226.2	226.2	221.7	221.7
62.5°	201.6	200.1	201.1	198.2	197.7
65°	166.7	165.6	167.4	166.1	166.1
67.5°	139.3	139.3	140.4	139.8	139.8
70°	123.9	123.9	124.6	124.6	124.6
72.5°	110.1	109.7	111.4	111.3	110.8
75°	90.1	90.1	90.1	90.7	90.7
77.5°	70.2	70.3	70.8	70.8	70.2
80°	56.9	57.5	57.5	56.9	56.9
82.5°	43.6	44.1	44.1	44.0	43.6
85°	23.0	24.3	25.5	25.5	25.5
87.5°	6.7	8.6	10.3	10.3	9.7
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: P845192

CATALOG NUMBER: SQ4P-PR1-100U-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)