

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: P845300

Luminaire Tested: **SQ4P-PW1-150U-050D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845300
REPORT IS A COMBINATION OF REPORTS P700151 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PW1-150U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

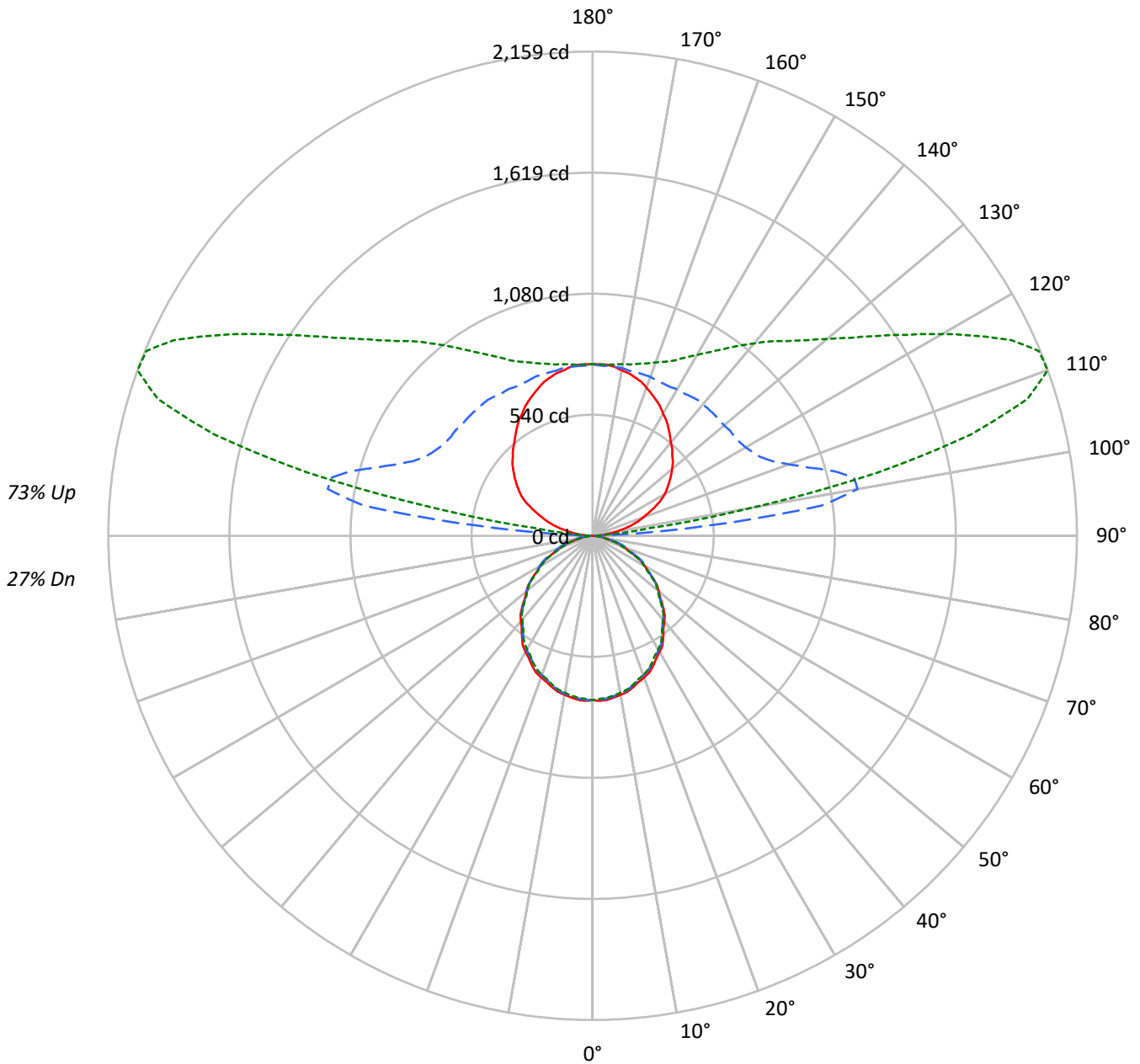
Lumens per Lamp: N/A
Luminaire Lumens: 6832.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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: P845300

CATALOG NUMBER: SQ4P-PW1-150U-050D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845300

CATALOG NUMBER: SQ4P-PW1-150U-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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27																			
1	93	89	85	82	83	79	76	73	62	60	58	46	45	43	31	31	30	23																			
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	28	26	25	19																			
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	24	23	21	16																			
4	70	60	52	47	63	54	47	42	42	38	34	32	29	26	22	20	18	14																			
5	64	53	46	40	57	48	41	36	38	33	29	28	25	23	20	18	16	12																			
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11																			
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10																			
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9																			
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	14	12	10	8																			
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6760	6760	6760
5°	6803	6750	6720
10°	6749	6695	6658
15°	6679	6604	6579
20°	6598	6496	6484
25°	6506	6388	6368
30°	6369	6273	6231
35°	6188	6099	6063
40°	5994	5902	5877
45°	5761	5686	5660
50°	5523	5476	5439
55°	5263	5263	5181
60°	4943	5039	4860
65°	4523	4748	4412
70°	3987	4373	3882
75°	3408	3911	3315
80°	2641	3289	2678
85°	1704	2530	2244



TEST NUMBER: P845300

CATALOG NUMBER: SQ4P-PW1-150U-050D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.0
10°-20°	194.8	2.9
20°-30°	288.9	4.2
30°-40°	338.1	4.9
40°-50°	336.6	4.9
50°-60°	290.7	4.3
60°-70°	209.2	3.1
70°-80°	109.7	1.6
80°-90°	29.0	0.4
90°-100°	304.6	4.5
100°-110°	1059.8	15.5
110°-120°	1026.6	15.0
120°-130°	805.3	11.8
130°-140°	637.4	9.3
140°-150°	491.9	7.2
150°-160°	352.6	5.2
160°-170°	215.7	3.2
170°-180°	73.0	1.1
0°-30°	552.7	8.1
0°-40°	890.8	13.0
0°-60°	1518.0	22.2
0°-90°	1866.0	27.3
90°-120°	2391.0	35.0
90°-150°	4325.6	63.3
90°-180°	4967.0	72.7
0°-180°	6832.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	735	726	729	727	726	70
15°	699	690	691	690	689	197
25°	639	628	628	624	626	294
35°	549	542	542	536	538	343
45°	442	438	436	434	434	341
55°	327	327	327	323	322	292
65°	207	214	218	209	202	205
75°	96	104	110	102	93	102
85°	16	21	24	23	21	21
90°	11	17	17	11	6	8
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



TEST NUMBER: P845300

CATALOG NUMBER: SQ4P-PW1-150U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.7	732.7	732.7	732.7	732.7
2.5°	736.9	730.8	732.7	731.1	727.6
5°	734.6	726.4	728.8	726.9	725.6
7.5°	727.2	719.6	721.3	719.2	718.6
10°	720.4	712.9	714.6	712.1	710.7
12.5°	712.7	704.6	706.4	703.7	703.0
15°	699.2	690.3	691.4	690.0	688.8
17.5°	683.3	674.4	674.5	672.6	672.2
20°	672.0	662.6	661.6	659.1	660.4
22.5°	659.7	649.7	648.8	645.2	646.9
25°	639.1	628.3	627.5	623.6	625.5
27.5°	615.3	604.8	604.8	599.4	601.3
30°	597.8	587.6	588.8	582.3	584.9
32.5°	579.2	570.1	570.6	564.2	566.9
35°	549.4	541.8	541.5	536.4	538.3
37.5°	518.8	512.2	511.1	508.2	508.7
40°	497.7	492.0	490.0	488.0	488.0
42.5°	475.5	470.4	468.2	466.8	466.4
45°	441.5	437.8	435.8	434.4	433.8
47.5°	408.0	404.4	402.7	401.8	401.1
50°	384.8	382.2	381.5	379.6	378.9
52.5°	361.6	360.0	359.3	356.9	356.2
55°	327.2	326.7	327.2	322.8	322.1
57.5°	291.6	292.7	294.7	288.7	287.1
60°	267.9	270.4	273.1	266.0	263.4
62.5°	243.6	247.7	251.4	243.2	239.6
65°	207.2	213.5	217.5	209.0	202.1
67.5°	172.1	180.0	184.8	175.6	167.7
70°	147.8	156.7	162.1	152.8	143.9
72.5°	126.6	136.5	140.9	132.1	123.3
75°	95.6	104.4	109.7	102.4	93.0
77.5°	67.8	76.1	80.5	74.2	66.3
80°	49.7	58.5	61.9	56.7	50.4
82.5°	35.2	42.7	44.9	41.7	37.4
85°	16.1	21.1	23.9	22.6	21.2
87.5°	4.1	7.6	9.8	9.8	10.4
90°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



TEST NUMBER: P845300

CATALOG NUMBER: SQ4P-PW1-150U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)