

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P565102

Luminaire Tested: **SQ4-PW1-150U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565102
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

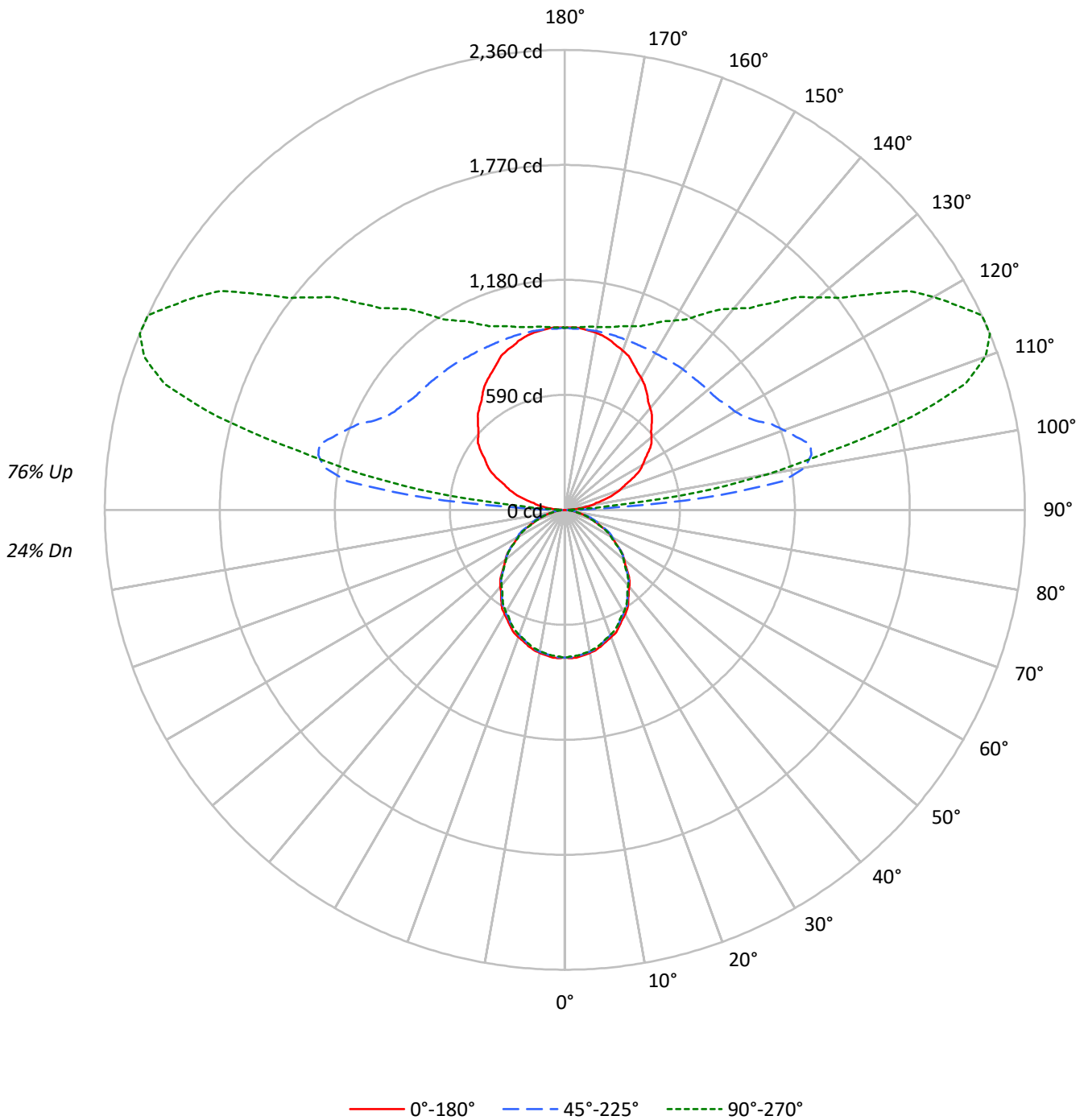
Lumens per Lamp: N/A
Luminaire Lumens: 7954.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): 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: 24 FT



TEST NUMBER: P565102
CATALOG NUMBER: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P565102

CATALOG NUMBER: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6951
10°	6980	6924	6887
15°	6907	6830	6805
20°	6824	6720	6706
25°	6729	6607	6586
30°	6587	6487	6444
35°	6400	6310	6271
40°	6200	6104	6080
45°	5959	5881	5855
50°	5711	5664	5625
55°	5445	5445	5360
60°	5113	5211	5026
65°	4678	4912	4563
70°	4125	4521	4017
75°	3522	4046	3426
80°	2731	3406	2768
85°	1768	2615	2329



TEST NUMBER: P565102

CATALOG NUMBER: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	0.9
10°-20°	201.5	2.5
20°-30°	298.8	3.8
30°-40°	349.7	4.4
40°-50°	348.1	4.4
50°-60°	300.6	3.8
60°-70°	216.4	2.7
70°-80°	113.5	1.4
80°-90°	30.1	0.4
90°-100°	434.2	5.5
100°-110°	1174.0	14.8
110°-120°	1234.3	15.5
120°-130°	1002.6	12.6
130°-140°	786.5	9.9
140°-150°	603.6	7.6
150°-160°	434.1	5.5
160°-170°	265.2	3.3
170°-180°	89.4	1.1
0°-30°	571.7	7.2
0°-40°	921.3	11.6
0°-60°	1570.1	19.7
0°-90°	1930.0	24.3
90°-120°	2842.6	35.7
90°-150°	5235.3	65.8
90°-180°	6024.0	75.7
0°-180°	7954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	760	751	754	752	750	72
15°	723	714	715	714	712	204
25°	661	650	649	645	647	304
35°	568	560	560	555	557	355
45°	457	453	451	449	449	352
55°	338	338	338	334	333	302
65°	214	221	225	216	209	212
75°	99	108	114	106	96	106
85°	17	22	25	23	22	22
90°	2	6	13	14	13	5
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

TEST NUMBER: P565102

CATALOG NUMBER: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.8	757.8	757.8	757.8	757.8
2.5°	762.1	755.8	757.8	756.1	752.5
5°	759.8	751.3	753.8	751.8	750.5
7.5°	752.1	744.2	746.1	743.9	743.1
10°	745.1	737.3	739.1	736.4	735.1
12.5°	737.1	728.7	730.6	727.9	727.1
15°	723.1	713.9	715.1	713.7	712.4
17.5°	706.8	697.5	697.7	695.6	695.3
20°	695.0	685.2	684.4	681.7	683.0
22.5°	682.2	671.9	671.0	667.3	669.1
25°	661.0	649.9	649.0	645.0	647.0
27.5°	636.4	625.5	625.5	619.9	622.0
30°	618.3	607.8	608.9	602.3	604.9
32.5°	599.0	589.6	590.2	583.6	586.2
35°	568.2	560.4	560.2	554.9	556.8
37.5°	536.7	529.8	528.7	525.6	526.1
40°	514.8	508.9	506.8	504.8	504.8
42.5°	491.8	486.4	484.3	482.8	482.3
45°	456.7	452.8	450.7	449.3	448.7
47.5°	422.0	418.3	416.5	415.5	414.9
50°	397.9	395.3	394.6	392.6	391.9
52.5°	373.9	372.3	371.6	369.1	368.4
55°	338.5	337.9	338.5	333.8	333.2
57.5°	301.7	302.7	304.9	298.5	297.0
60°	277.1	279.7	282.4	275.0	272.4
62.5°	252.0	256.2	260.0	251.5	247.8
65°	214.3	220.8	225.0	216.2	209.0
67.5°	178.0	186.1	191.1	181.6	173.5
70°	152.9	162.0	167.6	158.0	148.9
72.5°	131.0	141.2	145.7	136.7	127.5
75°	98.8	108.0	113.5	105.9	96.1
77.5°	70.1	78.7	83.3	76.7	68.6
80°	51.4	60.5	64.1	58.6	52.1
82.5°	36.5	44.0	46.5	43.2	38.7
85°	16.7	21.9	24.7	23.3	22.0
87.5°	4.7	9.1	12.8	13.0	13.3
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1

TEST NUMBER: P565102

CATALOG NUMBER: SQ4-PW1-150U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)