

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: P565106

Luminaire Tested: **SQ4-PW1-150U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565106
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

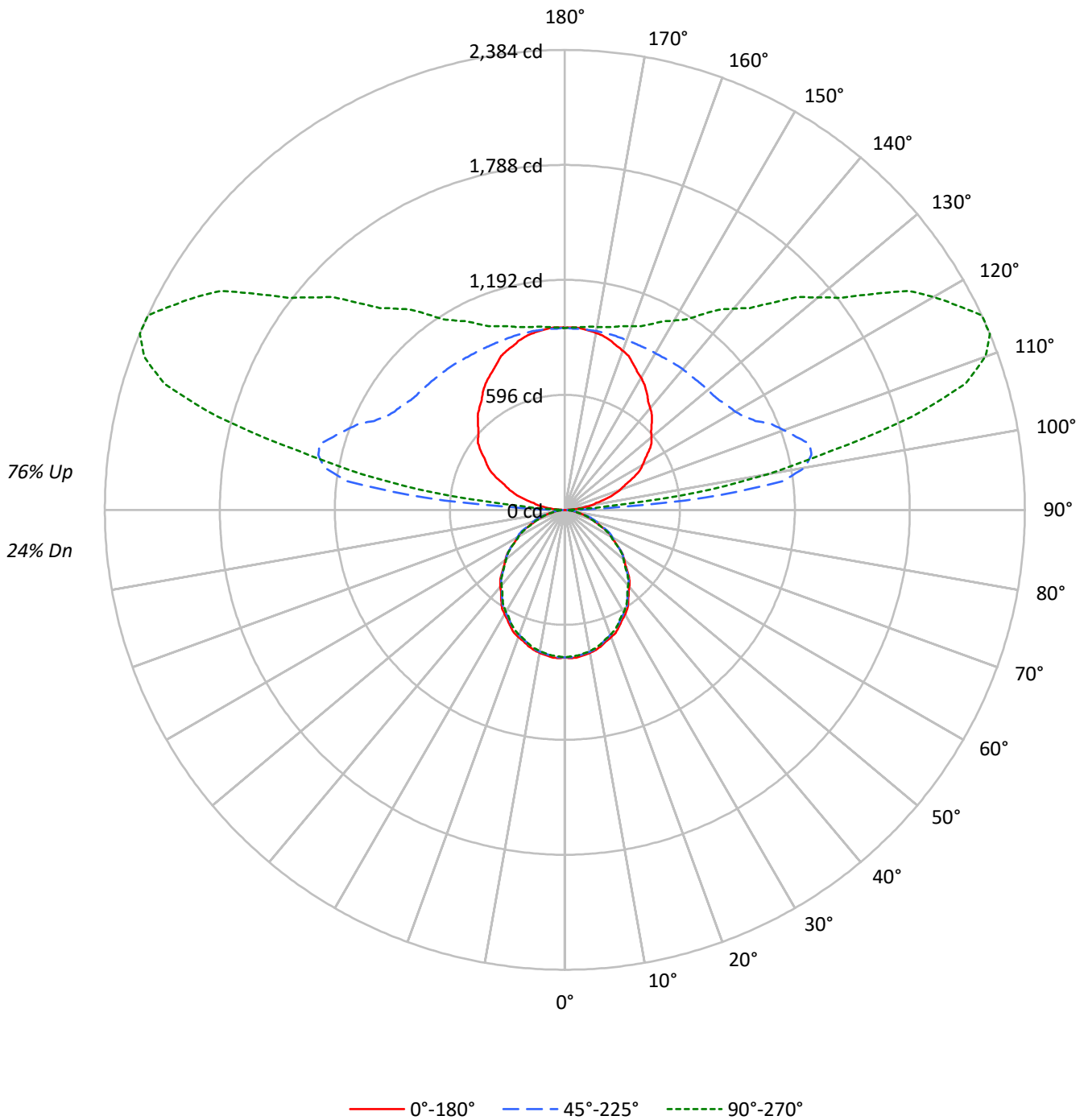
Lumens per Lamp: N/A
Luminaire Lumens: 8034.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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



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Luminous Intensity Polar Plot





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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°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6977	6899	6873
20°	6892	6786	6774
25°	6796	6673	6653
30°	6653	6552	6509
35°	6464	6373	6334
40°	6263	6165	6140
45°	6019	5939	5913
50°	5769	5721	5683
55°	5500	5500	5413
60°	5165	5264	5076
65°	4726	4962	4609
70°	4165	4567	4057
75°	3558	4085	3461
80°	2758	3438	2795
85°	1789	2646	2361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	0.9
10°-20°	203.5	2.5
20°-30°	301.8	3.8
30°-40°	353.2	4.4
40°-50°	351.6	4.4
50°-60°	303.6	3.8
60°-70°	218.6	2.7
70°-80°	114.6	1.4
80°-90°	30.4	0.4
90°-100°	438.6	5.5
100°-110°	1185.8	14.8
110°-120°	1246.8	15.5
120°-130°	1012.7	12.6
130°-140°	794.4	9.9
140°-150°	609.7	7.6
150°-160°	438.5	5.5
160°-170°	267.9	3.3
170°-180°	90.3	1.1
0°-30°	577.4	7.2
0°-40°	930.6	11.6
0°-60°	1585.9	19.7
0°-90°	1949.4	24.3
90°-120°	2871.2	35.7
90°-150°	5287.9	65.8
90°-180°	6085.0	75.7
0°-180°	8034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	768	759	761	759	758	73
15°	730	721	722	721	720	206
25°	668	656	656	652	654	307
35°	574	566	566	560	562	359
45°	461	457	455	454	453	356
55°	342	341	342	337	336	305
65°	216	223	227	218	211	215
75°	100	109	115	107	97	107
85°	17	22	25	24	22	22
90°	2	6	13	14	13	5
95°	68	239	729	378	224	71
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	

TEST NUMBER: P565106

CATALOG NUMBER: SQ4-PW1-150U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.4	765.4	765.4	765.4	765.4
2.5°	769.7	763.4	765.4	763.7	760.0
5°	767.5	758.9	761.4	759.3	758.0
7.5°	759.6	751.7	753.6	751.4	750.6
10°	752.6	744.7	746.5	743.8	742.5
12.5°	744.5	736.1	737.9	735.2	734.4
15°	730.4	721.1	722.3	720.9	719.6
17.5°	713.9	704.5	704.7	702.6	702.3
20°	702.0	692.1	691.2	688.6	689.9
22.5°	689.1	678.7	677.8	674.0	675.9
25°	667.6	656.4	655.5	651.5	653.5
27.5°	642.8	631.7	631.8	626.1	628.3
30°	624.5	613.9	615.0	608.4	611.0
32.5°	605.1	595.6	596.2	589.5	592.1
35°	573.9	566.0	565.8	560.5	562.4
37.5°	542.1	535.1	534.0	530.9	531.4
40°	520.0	514.0	511.9	509.8	509.8
42.5°	496.8	491.3	489.2	487.7	487.2
45°	461.3	457.3	455.2	453.8	453.2
47.5°	426.2	422.5	420.7	419.7	419.1
50°	401.9	399.3	398.6	396.5	395.9
52.5°	377.7	376.1	375.4	372.8	372.1
55°	341.9	341.3	341.9	337.2	336.5
57.5°	304.7	305.7	307.9	301.5	300.0
60°	279.9	282.5	285.3	277.8	275.1
62.5°	254.5	258.7	262.6	254.0	250.3
65°	216.5	223.1	227.3	218.3	211.1
67.5°	179.8	188.0	193.0	183.4	175.2
70°	154.4	163.7	169.3	159.6	150.4
72.5°	132.3	142.6	147.2	138.0	128.8
75°	99.8	109.0	114.6	107.0	97.1
77.5°	70.8	79.5	84.2	77.5	69.3
80°	51.9	61.2	64.7	59.2	52.6
82.5°	36.8	44.5	46.9	43.6	39.1
85°	16.9	22.1	25.0	23.6	22.3
87.5°	4.7	9.2	12.9	13.1	13.4
90°	2.0	6.0	13.2	14.2	13.2
92.5°	28.9	105.1	207.4	90.0	65.2
95°	68.1	238.9	729.4	377.5	224.5
97.5°	109.3	274.0	1136.9	940.9	691.0
100°	140.2	288.2	1263.7	1317.9	1065.6
102.5°	168.6	307.9	1308.4	1603.8	1415.1
105°	220.4	340.6	1315.5	1940.5	1861.0
107.5°	268.4	378.0	1258.0	2150.6	2177.0
110°	305.8	405.1	1206.8	2207.0	2319.2



TEST NUMBER: P565106

CATALOG NUMBER: SQ4-PW1-150U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)