

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: P562155

Luminaire Tested: **SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562155
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-025U-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

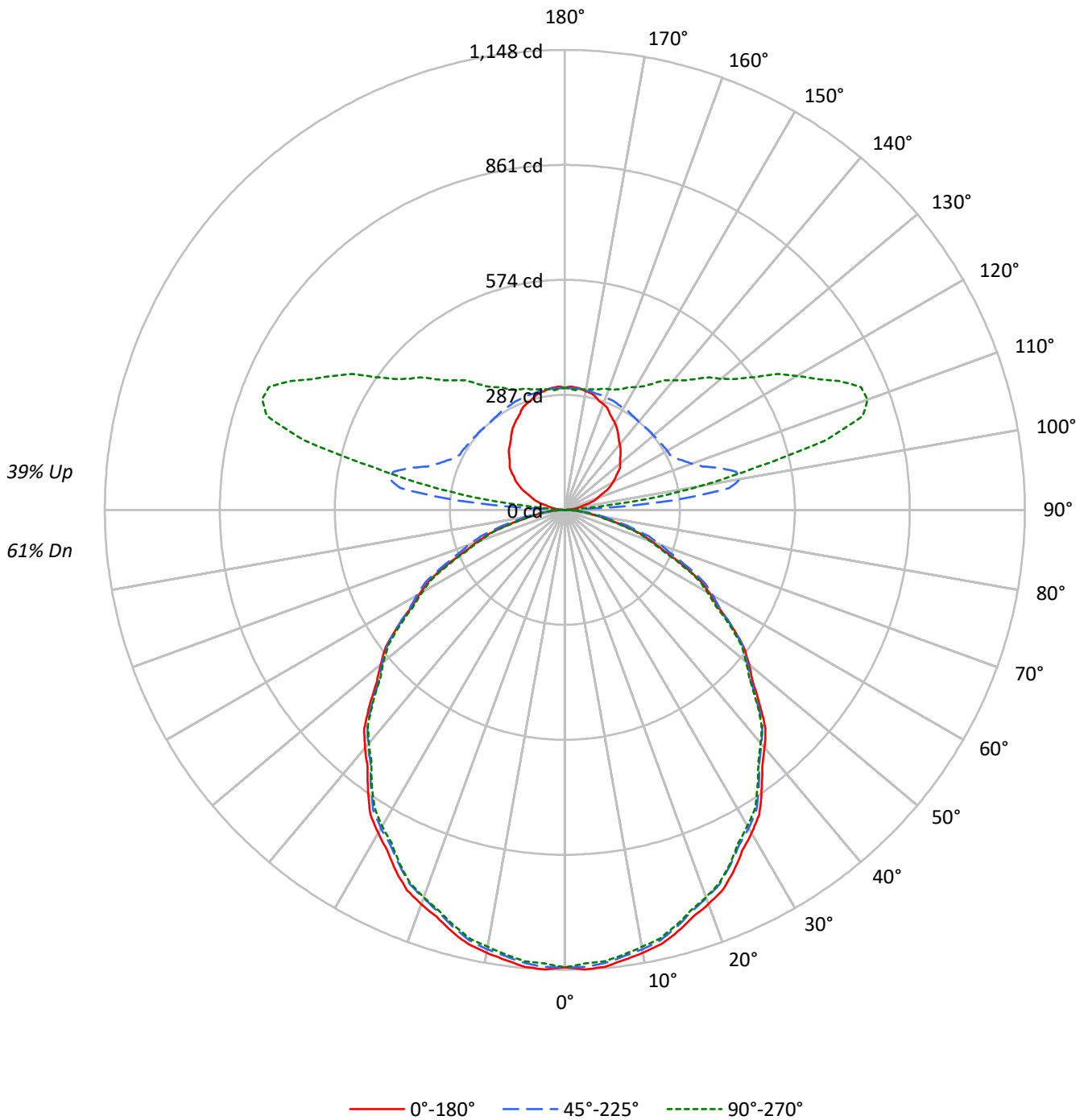
Lumens per Lamp: N/A
Luminaire Lumens: 4796.8 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.9
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	86	83	79	76	74	68	66	65	58	57	56	51
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	52	49	47	43
3	83	74	66	61	78	69	63	57	61	56	52	53	49	46	46	43	40	37
4	76	65	57	51	71	62	54	49	54	48	44	47	43	39	41	38	35	31
5	70	58	50	44	65	55	48	42	49	43	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	28	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10535	10535	10535
5°	10604	10520	10474
10°	10519	10435	10378
15°	10407	10293	10254
20°	10284	10126	10106
25°	10140	9955	9924
30°	9926	9776	9711
35°	9643	9507	9451
40°	9342	9197	9161
45°	8980	8861	8822
50°	8606	8535	8477
55°	8205	8205	8076
60°	7704	7853	7575
65°	7051	7403	6875
70°	6215	6811	6053
75°	5308	6096	5165
80°	4118	5133	4171
85°	2668	3938	3515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	2.2
10°-20°	303.6	6.3
20°-30°	450.3	9.4
30°-40°	526.9	11.0
40°-50°	524.6	10.9
50°-60°	453.0	9.4
60°-70°	326.1	6.8
70°-80°	171.0	3.6
80°-90°	42.4	0.9
90°-100°	138.8	2.9
100°-110°	394.8	8.2
110°-120°	378.2	7.9
120°-130°	299.4	6.2
130°-140°	240.3	5.0
140°-150°	188.1	3.9
150°-160°	137.6	2.9
160°-170°	85.3	1.8
170°-180°	28.9	0.6
0°-30°	861.5	18.0
0°-40°	1388.4	28.9
0°-60°	2365.9	49.3
0°-90°	2905.4	60.6
90°-120°	911.8	19.0
90°-150°	1639.5	34.2
90°-180°	1891.0	39.4
0°-180°	4796.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1145	1132	1136	1133	1131	108
15°	1090	1076	1078	1076	1074	307
25°	996	979	978	972	975	458
35°	856	844	844	836	839	535
45°	688	682	679	677	676	531
55°	510	509	510	503	502	455
65°	323	333	339	326	315	320
75°	149	163	171	160	145	160
85°	25	33	37	35	33	33
90°	0	0	0	0	0	2
95°	15	60	269	93	57	17
105°	61	93	402	711	676	65
115°	114	138	305	646	759	112
125°	161	178	291	483	578	144
135°	197	213	288	408	461	152
145°	232	244	290	353	385	145
155°	265	271	297	319	332	123
165°	293	294	300	307	311	82
175°	307	305	304	302	300	29
180°	304	304	304	304	304	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1148.4	1138.9	1141.9	1139.4	1133.9
5°	1145.0	1132.2	1135.9	1132.8	1130.9
7.5°	1133.3	1121.5	1124.2	1121.0	1119.8
10°	1122.8	1111.0	1113.8	1109.7	1107.7
12.5°	1110.8	1098.2	1100.9	1096.8	1095.7
15°	1089.6	1075.9	1077.6	1075.5	1073.5
17.5°	1065.1	1051.1	1051.4	1048.2	1047.8
20°	1047.4	1032.6	1031.3	1027.3	1029.3
22.5°	1028.1	1012.5	1011.2	1005.6	1008.3
25°	996.1	979.3	977.9	972.0	974.9
27.5°	959.0	942.5	942.5	934.2	937.3
30°	931.7	915.9	917.6	907.6	911.5
32.5°	902.7	888.5	889.4	879.4	883.4
35°	856.2	844.4	844.1	836.2	839.1
37.5°	808.7	798.3	796.6	792.0	792.8
40°	775.7	766.9	763.6	760.6	760.6
42.5°	741.1	733.0	729.8	727.6	726.8
45°	688.2	682.3	679.1	677.1	676.1
47.5°	635.9	630.4	627.6	626.2	625.2
50°	599.6	595.7	594.6	591.6	590.6
52.5°	563.4	561.1	560.0	556.2	555.2
55°	510.1	509.1	510.1	503.0	502.1
57.5°	454.6	456.1	459.4	449.9	447.5
60°	417.5	421.5	425.6	414.4	410.5
62.5°	379.7	386.0	391.8	379.0	373.5
65°	323.0	332.8	339.1	325.7	314.9
67.5°	268.2	280.4	288.0	273.6	261.4
70°	230.4	244.2	252.5	238.1	224.4
72.5°	197.4	212.7	219.5	205.9	192.2
75°	148.9	162.7	171.0	159.6	144.9
77.5°	105.6	118.6	125.6	115.6	103.4
80°	77.5	91.2	96.6	88.3	78.5
82.5°	54.9	66.3	70.0	65.0	58.4
85°	25.2	33.0	37.2	35.2	33.2
87.5°	6.4	11.9	15.3	15.3	16.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.6	24.6	57.0	16.6	12.5
95°	15.1	59.8	268.6	93.0	57.3
97.5°	27.7	70.0	413.7	296.0	202.8
100°	36.5	76.1	445.1	450.9	347.3
102.5°	46.2	82.6	438.2	577.2	486.7
105°	61.4	93.1	402.3	710.6	675.5
107.5°	76.8	105.2	360.4	748.3	779.5
110°	87.4	114.0	336.3	733.9	804.0

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CATALOG NUMBER: SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.6	122.8	320.1	699.8	799.9
115°	114.0	137.8	305.1	646.3	758.9
117.5°	128.5	150.8	296.1	587.7	707.0
120°	140.1	158.8	295.2	554.3	668.6
122.5°	149.3	168.0	292.9	524.9	631.1
125°	160.9	178.5	291.2	483.2	577.7
127.5°	173.5	190.0	290.2	458.3	536.1
130°	180.0	196.4	288.9	440.9	508.8
132.5°	187.0	202.9	288.9	427.3	489.8
135°	196.8	213.2	287.7	408.2	461.4
137.5°	206.1	222.0	287.6	391.9	437.9
140°	213.0	229.4	287.1	378.4	422.6
142.5°	220.9	234.6	288.5	367.7	407.3
145°	232.1	244.0	290.0	353.2	384.9
147.5°	241.7	253.3	292.6	338.7	366.1
150°	250.1	258.0	293.5	333.9	353.1
152.5°	256.6	264.9	294.4	327.3	345.2
155°	265.1	271.3	297.0	319.3	332.3
157.5°	275.8	279.5	297.5	315.6	324.9
160°	281.3	284.2	299.9	312.8	320.7
162.5°	284.6	287.9	300.3	310.4	316.5
165°	292.9	294.0	300.4	306.9	311.4
167.5°	298.6	297.6	303.1	306.0	307.8
170°	300.4	299.9	302.2	302.8	305.1
172.5°	304.6	302.7	303.6	301.9	303.7
175°	306.8	305.1	303.9	302.1	299.9
177.5°	307.7	305.0	303.6	301.7	302.2
180°	304.5	304.5	304.5	304.5	304.5

(END OF REPORT)