

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: P562161

Luminaire Tested: **SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562161
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

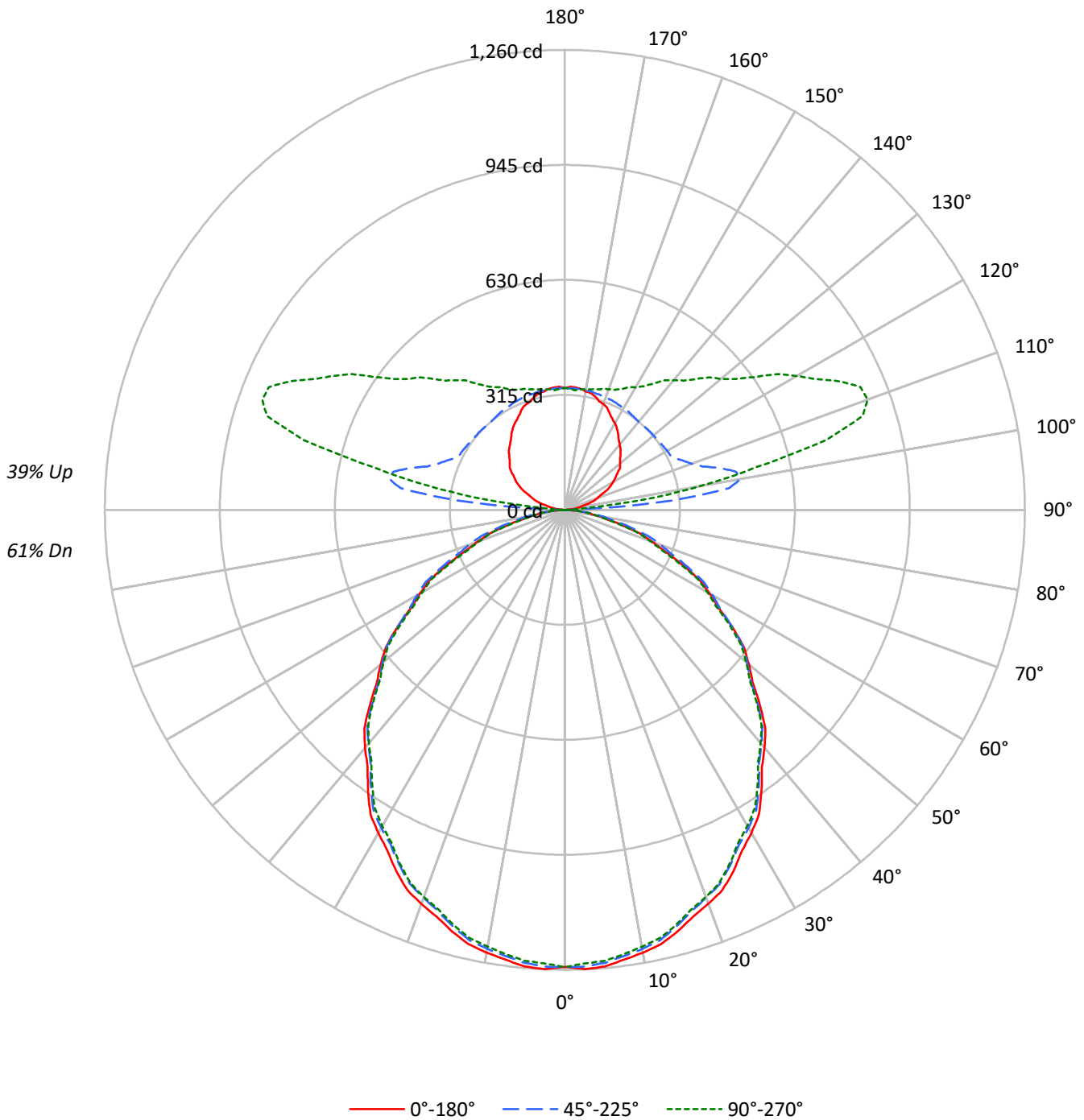
Lumens per Lamp: N/A
Luminaire Lumens: 5261.3 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.6
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°	11556	11556	11556
5°	11631	11539	11488
10°	11538	11445	11383
15°	11415	11289	11247
20°	11279	11106	11084
25°	11122	10919	10885
30°	10887	10722	10651
35°	10577	10429	10367
40°	10247	10088	10048
45°	9848	9719	9676
50°	9440	9361	9298
55°	9000	9000	8858
60°	8451	8614	8307
65°	7733	8119	7540
70°	6817	7472	6639
75°	5821	6687	5664
80°	4516	5627	4575
85°	2922	4319	3853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	2.2
10°-20°	333.0	6.3
20°-30°	493.9	9.4
30°-40°	578.0	11.0
40°-50°	575.4	10.9
50°-60°	496.9	9.4
60°-70°	357.6	6.8
70°-80°	187.5	3.6
80°-90°	46.5	0.9
90°-100°	152.2	2.9
100°-110°	433.0	8.2
110°-120°	414.9	7.9
120°-130°	328.4	6.2
130°-140°	263.6	5.0
140°-150°	206.3	3.9
150°-160°	151.0	2.9
160°-170°	93.5	1.8
170°-180°	31.7	0.6
0°-30°	944.9	18.0
0°-40°	1522.8	28.9
0°-60°	2595.1	49.3
0°-90°	3186.8	60.6
90°-120°	1000.1	19.0
90°-150°	1798.3	34.2
90°-180°	2075.0	39.4
0°-180°	5261.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1256	1242	1246	1242	1240	119
15°	1195	1180	1182	1180	1178	337
25°	1092	1074	1073	1066	1069	502
35°	939	926	926	917	920	587
45°	755	748	745	743	742	582
55°	560	558	560	552	551	499
65°	354	365	372	357	345	351
75°	163	178	188	175	159	175
85°	28	36	41	39	36	36
90°	0	0	0	0	0	2
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	

TEST NUMBER: P562161

CATALOG NUMBER: SQ4-PW1-025U-075D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.5	1252.5	1252.5	1252.5	1252.5
2.5°	1259.6	1249.2	1252.5	1249.7	1243.7
5°	1255.8	1241.8	1245.9	1242.5	1240.4
7.5°	1243.0	1230.1	1233.1	1229.5	1228.2
10°	1231.6	1218.6	1221.6	1217.2	1215.0
12.5°	1218.3	1204.5	1207.5	1203.1	1201.8
15°	1195.1	1180.0	1181.9	1179.6	1177.5
17.5°	1168.2	1152.9	1153.2	1149.7	1149.2
20°	1148.8	1132.6	1131.1	1126.8	1128.9
22.5°	1127.6	1110.6	1109.1	1103.0	1106.0
25°	1092.5	1074.2	1072.6	1066.1	1069.3
27.5°	1051.9	1033.8	1033.8	1024.6	1028.1
30°	1021.9	1004.6	1006.4	995.5	999.8
32.5°	990.1	974.6	975.5	964.6	968.9
35°	939.1	926.2	925.9	917.1	920.4
37.5°	887.0	875.6	873.8	868.7	869.6
40°	850.8	841.1	837.6	834.3	834.3
42.5°	812.9	804.0	800.5	798.1	797.2
45°	754.8	748.4	744.9	742.7	741.6
47.5°	697.4	691.4	688.4	686.8	685.7
50°	657.7	653.4	652.2	648.9	647.8
52.5°	618.0	615.4	614.2	610.0	608.9
55°	559.5	558.4	559.5	551.7	550.7
57.5°	498.6	500.3	503.9	493.4	490.9
60°	458.0	462.3	466.8	454.6	450.2
62.5°	416.5	423.4	429.7	415.7	409.6
65°	354.2	365.0	371.9	357.3	345.4
67.5°	294.2	307.6	315.8	300.1	286.7
70°	252.7	267.8	277.0	261.2	246.1
72.5°	216.5	233.3	240.8	225.9	210.8
75°	163.3	178.4	187.6	175.1	158.9
77.5°	115.9	130.1	137.7	126.8	113.4
80°	85.0	100.1	105.9	96.9	86.1
82.5°	60.3	72.8	76.8	71.3	64.0
85°	27.6	36.2	40.8	38.6	36.4
87.5°	7.1	13.1	16.8	16.8	17.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)