

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: P562273

Luminaire Tested: **SQ4-PW1-075U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562273
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-PW1-075U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

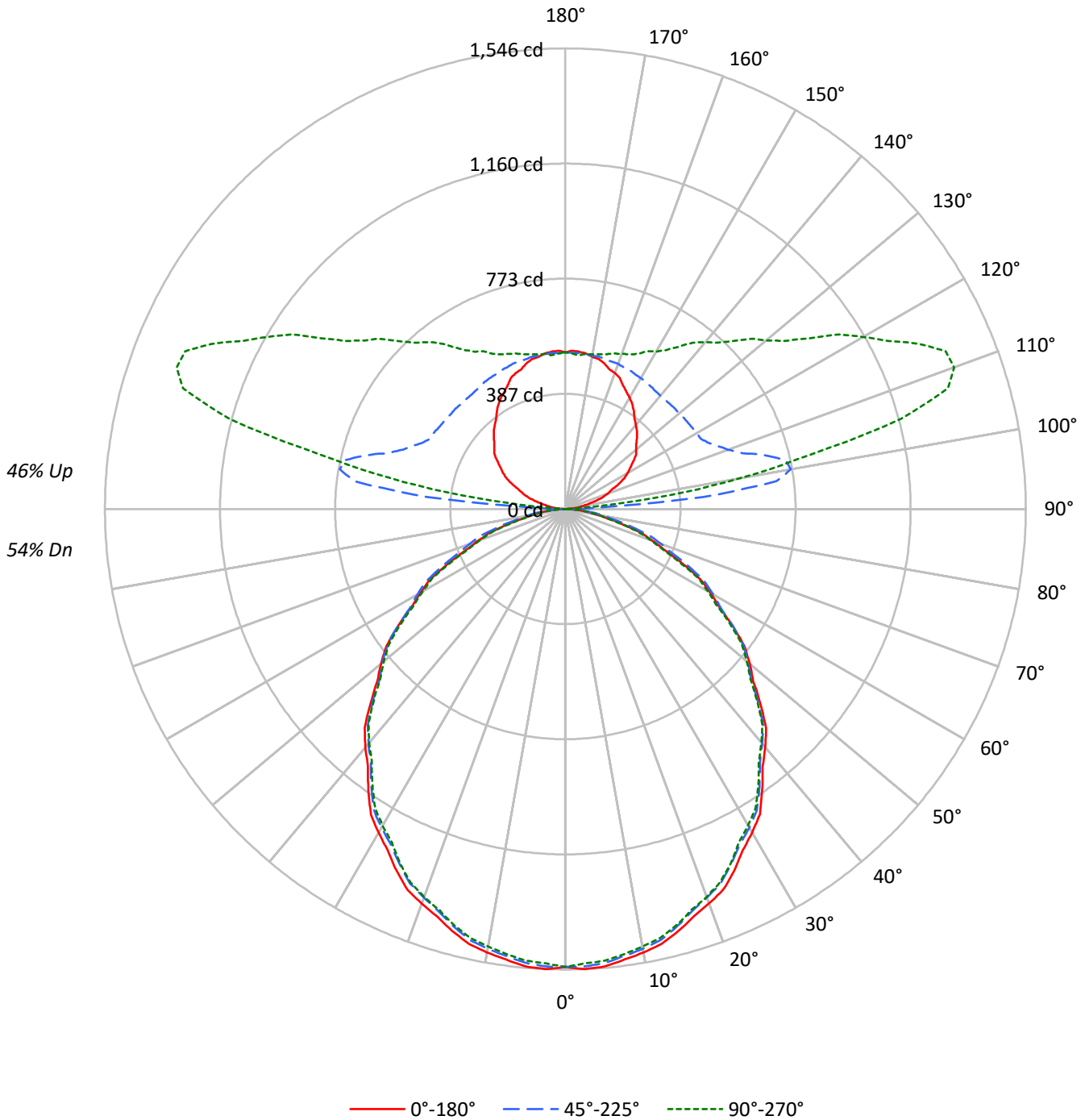
Lumens per Lamp: N/A
Luminaire Lumens: 7178.4 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 66.1
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									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																									
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54							
1	99	95	91	87	92	88	85	82	75	73	71	64	62	61	53	52	51	46							
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39							
3	82	73	65	60	76	68	61	56	58	54	49	50	46	43	42	39	37	33							
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28							
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25							
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22							
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19							
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17							
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15							
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14183	14183	14183
5°	14275	14162	14099
10°	14161	14046	13969
15°	14010	13855	13803
20°	13843	13630	13603
25°	13649	13401	13360
30°	13361	13159	13072
35°	12982	12798	12722
40°	12576	12381	12332
45°	12088	11928	11875
50°	11586	11488	11411
55°	11046	11046	10871
60°	10372	10571	10197
65°	9490	9964	9254
70°	8365	9169	8147
75°	7144	8206	6951
80°	5542	6907	5611
85°	3589	5304	4732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	2.0
10°-20°	408.7	5.7
20°-30°	606.2	8.4
30°-40°	709.3	9.9
40°-50°	706.1	9.8
50°-60°	609.8	8.5
60°-70°	438.9	6.1
70°-80°	230.2	3.2
80°-90°	57.1	0.8
90°-100°	239.7	3.3
100°-110°	682.0	9.5
110°-120°	653.4	9.1
120°-130°	517.2	7.2
130°-140°	415.1	5.8
140°-150°	325.0	4.5
150°-160°	237.8	3.3
160°-170°	147.3	2.1
170°-180°	50.0	0.7
0°-30°	1159.6	16.2
0°-40°	1868.9	26.0
0°-60°	3184.8	44.4
0°-90°	3911.0	54.5
90°-120°	1575.1	21.9
90°-150°	2832.3	39.5
90°-180°	3267.0	45.5
0°-180°	7178.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1541	1524	1529	1525	1522	146
15°	1467	1448	1450	1448	1445	413
25°	1341	1318	1316	1308	1312	617
35°	1153	1137	1136	1126	1130	721
45°	926	918	914	912	910	715
55°	687	685	687	677	676	613
65°	435	448	456	438	424	431
75°	200	219	230	215	195	215
85°	34	44	50	47	45	45
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.2	1537.2	1537.2	1537.2	1537.2
2.5°	1545.9	1533.1	1537.2	1533.8	1526.4
5°	1541.3	1524.0	1529.1	1524.9	1522.3
7.5°	1525.5	1509.7	1513.4	1509.0	1507.4
10°	1511.5	1495.6	1499.3	1493.8	1491.1
12.5°	1495.2	1478.3	1481.9	1476.5	1474.9
15°	1466.8	1448.2	1450.5	1447.7	1445.1
17.5°	1433.7	1414.9	1415.3	1411.0	1410.4
20°	1409.9	1390.0	1388.2	1382.9	1385.5
22.5°	1383.9	1363.0	1361.1	1353.6	1357.3
25°	1340.8	1318.3	1316.4	1308.4	1312.4
27.5°	1291.0	1268.7	1268.8	1257.5	1261.7
30°	1254.1	1232.9	1235.2	1221.7	1227.0
32.5°	1215.1	1196.1	1197.2	1183.8	1189.1
35°	1152.6	1136.7	1136.3	1125.6	1129.5
37.5°	1088.6	1074.6	1072.4	1066.2	1067.2
40°	1044.2	1032.3	1028.0	1023.9	1023.9
42.5°	997.6	986.8	982.4	979.4	978.4
45°	926.4	918.4	914.2	911.5	910.1
47.5°	856.0	848.5	844.8	842.9	841.6
50°	807.2	801.9	800.4	796.3	795.0
52.5°	758.4	755.3	753.8	748.7	747.3
55°	686.7	685.3	686.7	677.1	675.8
57.5°	611.9	614.0	618.4	605.6	602.4
60°	562.1	567.4	572.9	557.9	552.6
62.5°	511.1	519.6	527.4	510.2	502.7
65°	434.7	448.0	456.4	438.5	423.9
67.5°	361.1	377.5	387.6	368.3	351.9
70°	310.1	328.7	339.9	320.6	302.0
72.5°	265.7	286.4	295.5	277.2	258.7
75°	200.4	219.0	230.2	214.9	195.0
77.5°	142.2	159.7	169.0	155.6	139.2
80°	104.3	122.8	130.0	118.9	105.6
82.5°	73.9	89.3	94.3	87.6	78.6
85°	33.9	44.5	50.1	47.3	44.7
87.5°	8.7	16.1	20.6	20.6	21.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)