

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: P562169

Luminaire Tested: **SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562169
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-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 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

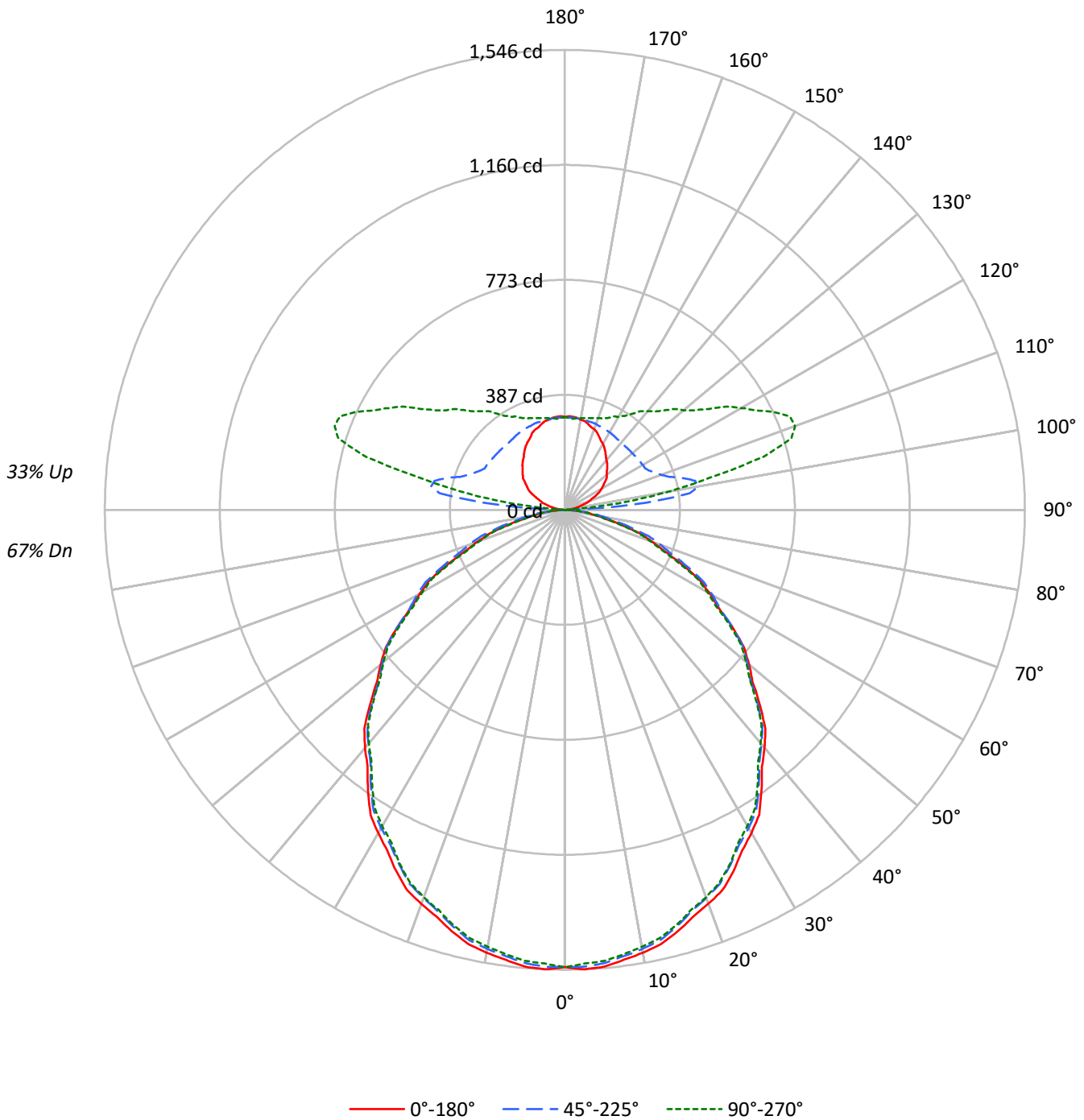
Lumens per Lamp: N/A
Luminaire Lumens: 5847.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 56.4
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57
2	93	85	79	74	87	80	75	70	72	67	64	64	60	57	56	54	51	48
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	47	44	40
4	78	66	58	52	73	63	56	50	56	51	46	50	46	42	45	41	38	35
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	27
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	24
8	57	44	36	31	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	33	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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	2.5
10°-20°	408.7	7.0
20°-30°	606.2	10.4
30°-40°	709.3	12.1
40°-50°	706.1	12.1
50°-60°	609.8	10.4
60°-70°	438.9	7.5
70°-80°	230.2	3.9
80°-90°	57.1	1.0
90°-100°	142.1	2.4
100°-110°	404.2	6.9
110°-120°	387.3	6.6
120°-130°	306.6	5.2
130°-140°	246.0	4.2
140°-150°	192.6	3.3
150°-160°	140.9	2.4
160°-170°	87.3	1.5
170°-180°	29.6	0.5
0°-30°	1159.6	19.8
0°-40°	1868.9	32.0
0°-60°	3184.8	54.5
0°-90°	3911.0	66.9
90°-120°	933.6	16.0
90°-150°	1678.9	28.7
90°-180°	1937.0	33.1
0°-180°	5847.8	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°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

TEST NUMBER: P562169

CATALOG NUMBER: SQ4-PW1-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

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°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)