

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: P564590

Luminaire Tested: **SQ4-PW1-025U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564590
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

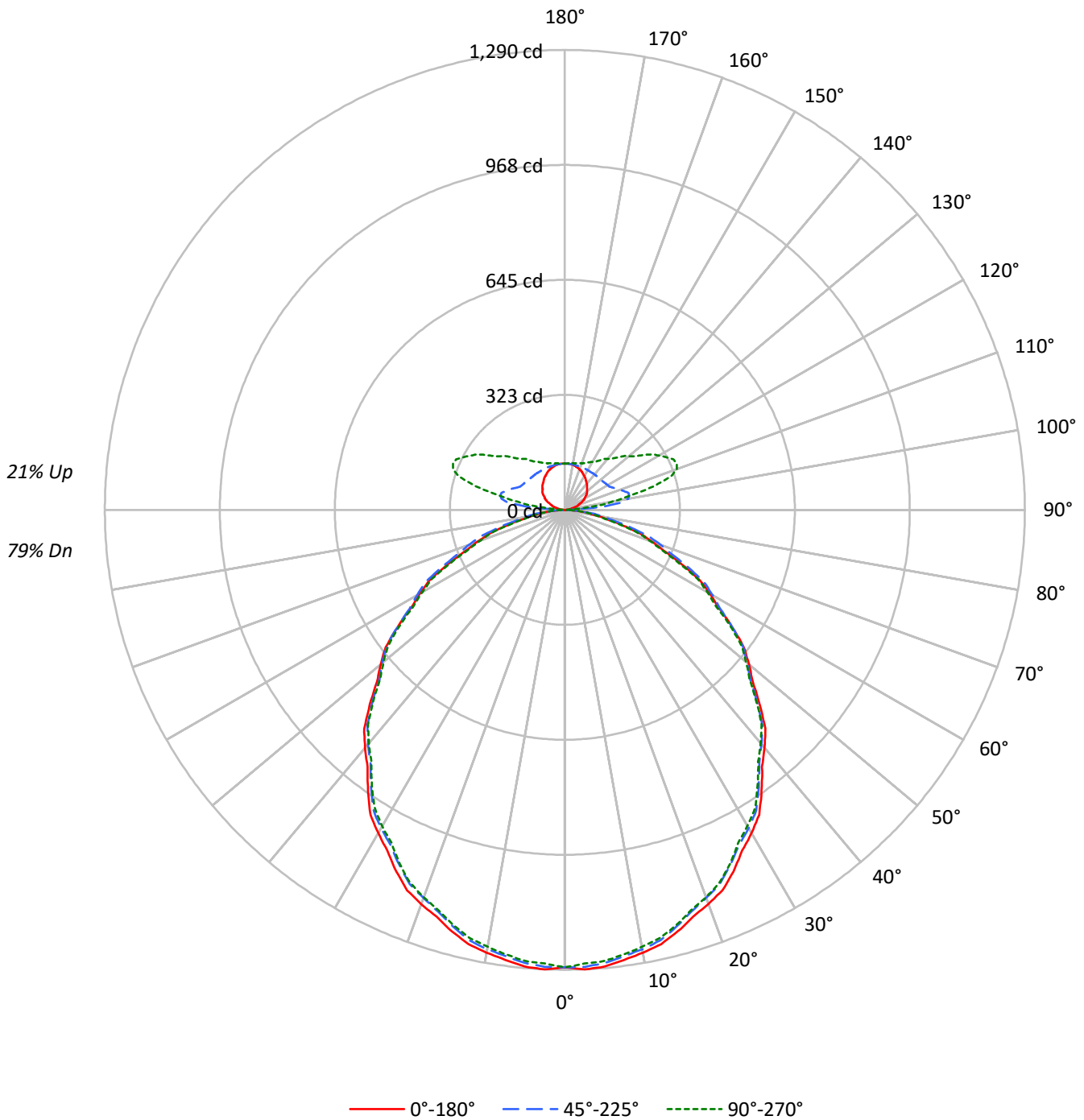
Lumens per Lamp: N/A
Luminaire Lumens: 4108.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79
1	105	100	96	93	100	96	92	89	88	85	83	81	78	76	74	72	71	67
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41
5	73	61	53	46	70	59	51	45	55	48	43	50	45	41	47	42	38	36
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28
8	58	46	37	32	56	44	36	31	41	34	30	38	33	28	36	31	27	25
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11836	11836	11836
5°	11913	11819	11767
10°	11818	11723	11659
15°	11692	11563	11520
20°	11553	11376	11353
25°	11391	11185	11150
30°	11151	10983	10910
35°	10834	10681	10618
40°	10496	10333	10292
45°	10087	9955	9911
50°	9670	9588	9523
55°	9219	9219	9072
60°	8656	8822	8510
65°	7920	8315	7724
70°	6981	7653	6801
75°	5964	6851	5803
80°	4622	5765	4686
85°	2996	4425	3949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	2.9
10°-20°	341.1	8.3
20°-30°	505.9	12.3
30°-40°	592.0	14.4
40°-50°	589.3	14.3
50°-60°	508.9	12.4
60°-70°	366.3	8.9
70°-80°	192.1	4.7
80°-90°	48.3	1.2
90°-100°	63.4	1.5
100°-110°	166.7	4.1
110°-120°	172.9	4.2
120°-130°	138.7	3.4
130°-140°	108.8	2.6
140°-150°	83.5	2.0
150°-160°	60.2	1.5
160°-170°	36.8	0.9
170°-180°	12.4	0.3
0°-30°	967.8	23.6
0°-40°	1559.8	38.0
0°-60°	2658.0	64.7
0°-90°	3264.8	79.5
90°-120°	403.0	9.8
90°-150°	734.0	17.9
90°-180°	843.0	20.5
0°-180°	4108.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1286	1272	1276	1273	1270	122
15°	1224	1209	1211	1208	1206	345
25°	1119	1100	1099	1092	1095	515
35°	962	949	948	939	943	601
45°	773	766	763	761	760	597
55°	573	572	573	565	564	511
65°	363	374	381	366	354	360
75°	167	183	192	179	163	179
85°	28	37	42	40	37	37
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1290.2	1279.6	1282.9	1280.1	1273.9
5°	1286.3	1271.9	1276.1	1272.7	1270.5
7.5°	1273.2	1259.9	1263.0	1259.4	1258.1
10°	1261.5	1248.2	1251.3	1246.7	1244.5
12.5°	1247.9	1233.7	1236.8	1232.3	1230.9
15°	1224.1	1208.7	1210.6	1208.3	1206.1
17.5°	1196.6	1180.9	1181.2	1177.6	1177.1
20°	1176.7	1160.1	1158.6	1154.1	1156.3
22.5°	1155.0	1137.5	1136.0	1129.7	1132.8
25°	1119.0	1100.2	1098.7	1092.0	1095.3
27.5°	1077.4	1058.9	1058.9	1049.5	1053.0
30°	1046.7	1029.0	1030.9	1019.7	1024.1
32.5°	1014.1	998.2	999.2	988.0	992.4
35°	961.9	948.6	948.3	939.4	942.7
37.5°	908.6	896.8	895.0	889.8	890.7
40°	871.5	861.5	857.9	854.5	854.5
42.5°	832.6	823.5	819.9	817.4	816.6
45°	773.1	766.5	763.0	760.7	759.6
47.5°	714.4	708.2	705.1	703.5	702.4
50°	673.7	669.3	668.0	664.6	663.5
52.5°	633.0	630.3	629.1	624.8	623.7
55°	573.1	572.0	573.1	565.1	564.0
57.5°	510.7	512.5	516.1	505.4	502.8
60°	469.1	473.5	478.1	465.6	461.2
62.5°	426.6	433.7	440.2	425.8	419.6
65°	362.8	373.9	380.9	366.0	353.8
67.5°	301.3	315.1	323.5	307.4	293.7
70°	258.8	274.3	283.7	267.5	252.1
72.5°	221.8	239.0	246.6	231.4	215.9
75°	167.3	182.8	192.2	179.3	162.8
77.5°	118.7	133.3	141.1	129.9	116.2
80°	87.0	102.5	108.5	99.2	88.2
82.5°	61.7	74.5	78.7	73.1	65.6
85°	28.3	37.1	41.8	39.5	37.3
87.5°	7.4	13.9	18.5	17.9	18.8
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)