

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: P563895

Luminaire Tested: **SQ4-PR1-025U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563895
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

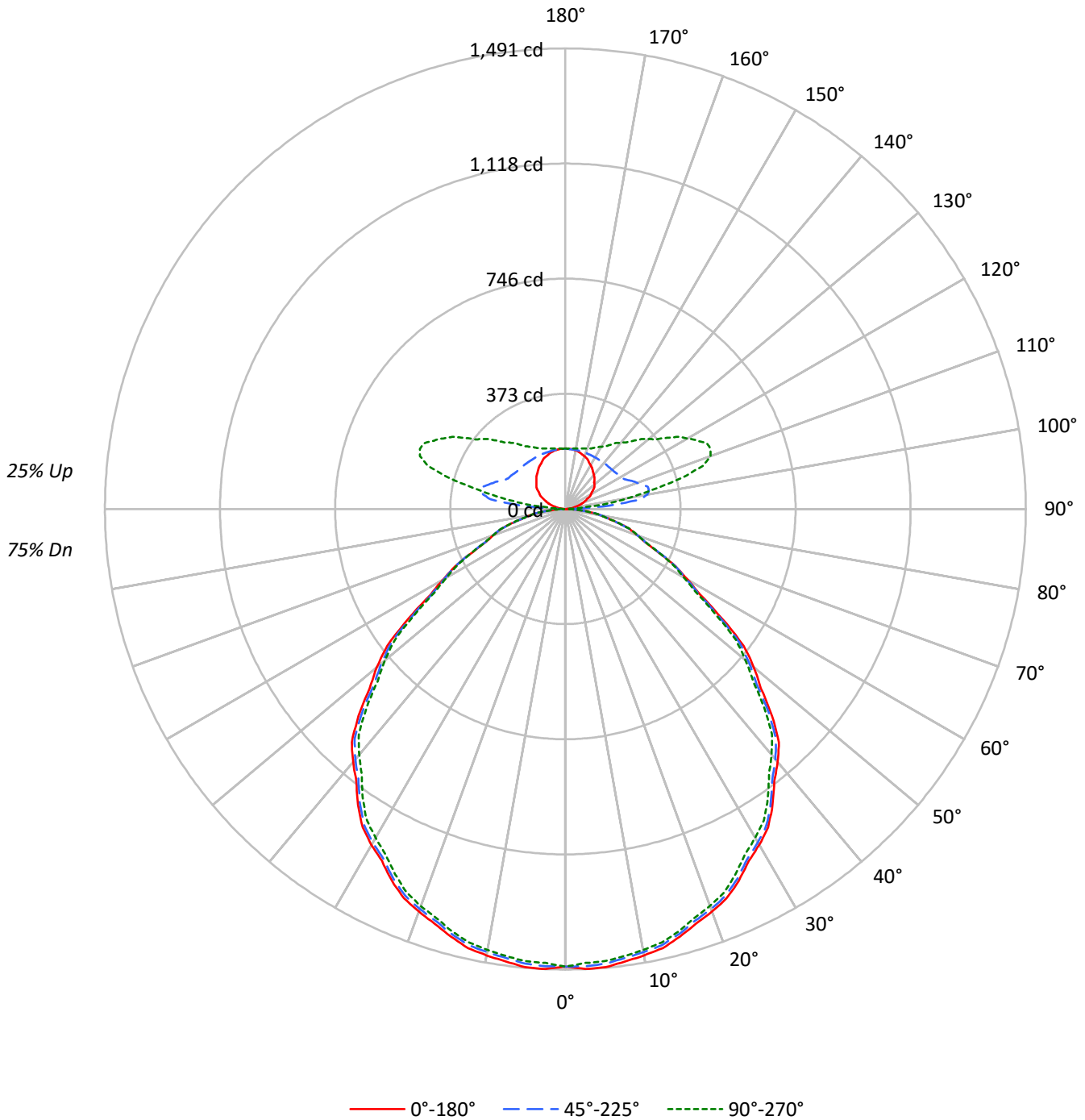
Lumens per Lamp: N/A
Luminaire Lumens: 4969.7 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	57	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	61	53	47	70	59	51	46	54	48	43	49	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	42	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	44	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	25	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9112	9112	9112
5°	9195	9124	9076
10°	9166	9102	9054
15°	9125	9068	9019
20°	9079	9020	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8709	8585
40°	8586	8493	8340
45°	8236	8091	7925
50°	7620	7436	7290
55°	6651	6500	6363
60°	5605	5557	5447
65°	4846	4865	4829
70°	4453	4474	4474
75°	4275	4275	4306
80°	4024	4066	4024
85°	3239	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	2.8
10°-20°	400.8	8.1
20°-30°	604.6	12.2
30°-40°	720.4	14.5
40°-50°	710.2	14.3
50°-60°	542.8	10.9
60°-70°	335.9	6.8
70°-80°	190.8	3.8
80°-90°	59.1	1.2
90°-100°	95.1	1.9
100°-110°	250.1	5.0
110°-120°	259.3	5.2
120°-130°	208.0	4.2
130°-140°	163.2	3.3
140°-150°	125.3	2.5
150°-160°	90.2	1.8
160°-170°	55.2	1.1
170°-180°	18.6	0.4
0°-30°	1145.5	23.0
0°-40°	1865.9	37.5
0°-60°	3118.9	62.8
0°-90°	3704.6	74.5
90°-120°	604.6	12.2
90°-150°	1101.1	22.2
90°-180°	1265.0	25.5
0°-180°	4969.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1489	1473	1478	1472	1470	141
15°	1433	1418	1424	1419	1416	404
25°	1328	1312	1319	1305	1304	611
35°	1170	1156	1160	1145	1143	730
45°	947	934	930	914	911	725
55°	620	610	606	596	593	556
65°	333	331	334	332	332	337
75°	180	180	180	181	181	190
85°	46	48	51	51	51	53
90°	1	4	10	5	5	3
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1490.7	1477.7	1481.5	1478.3	1471.3
5°	1489.2	1472.9	1477.7	1472.5	1470.0
7.5°	1477.7	1461.7	1466.4	1461.3	1459.8
10°	1467.5	1452.5	1457.3	1452.1	1449.6
12.5°	1456.2	1440.3	1446.0	1439.8	1437.3
15°	1433.0	1418.0	1424.1	1418.9	1416.4
17.5°	1407.5	1391.5	1397.5	1391.6	1388.3
20°	1387.1	1372.1	1378.1	1369.2	1367.9
22.5°	1364.6	1349.6	1355.7	1343.7	1343.4
25°	1328.4	1312.1	1319.4	1305.4	1304.1
27.5°	1285.2	1270.3	1276.3	1262.0	1260.5
30°	1255.6	1240.7	1246.7	1231.3	1228.8
32.5°	1221.9	1208.0	1213.0	1197.7	1196.2
35°	1170.1	1156.4	1159.9	1144.6	1143.3
37.5°	1111.2	1098.7	1100.7	1083.8	1082.6
40°	1069.3	1056.9	1057.8	1040.0	1038.7
42.5°	1023.4	1010.9	1009.9	992.0	990.7
45°	946.8	934.4	930.2	913.6	911.1
47.5°	859.5	847.1	839.4	825.8	824.1
50°	796.3	783.8	777.1	765.5	761.8
52.5°	727.9	715.4	709.7	699.2	695.4
55°	620.2	610.2	606.1	595.9	593.4
57.5°	517.8	511.1	509.9	499.9	498.9
60°	455.6	451.8	451.7	442.8	442.8
62.5°	402.5	399.7	401.7	395.8	394.8
65°	333.0	330.6	334.3	331.8	331.8
67.5°	278.2	278.2	280.5	279.5	279.5
70°	247.6	247.6	248.8	248.8	248.8
72.5°	220.0	219.0	222.3	222.3	221.3
75°	179.9	179.9	179.9	181.2	181.2
77.5°	140.1	140.4	141.4	141.1	140.1
80°	113.6	114.8	114.8	113.6	113.6
82.5°	87.0	88.3	88.3	88.0	87.0
85°	45.9	48.4	51.0	51.0	51.0
87.5°	13.5	18.0	22.4	21.4	20.4
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)