

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: P564087

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564087
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

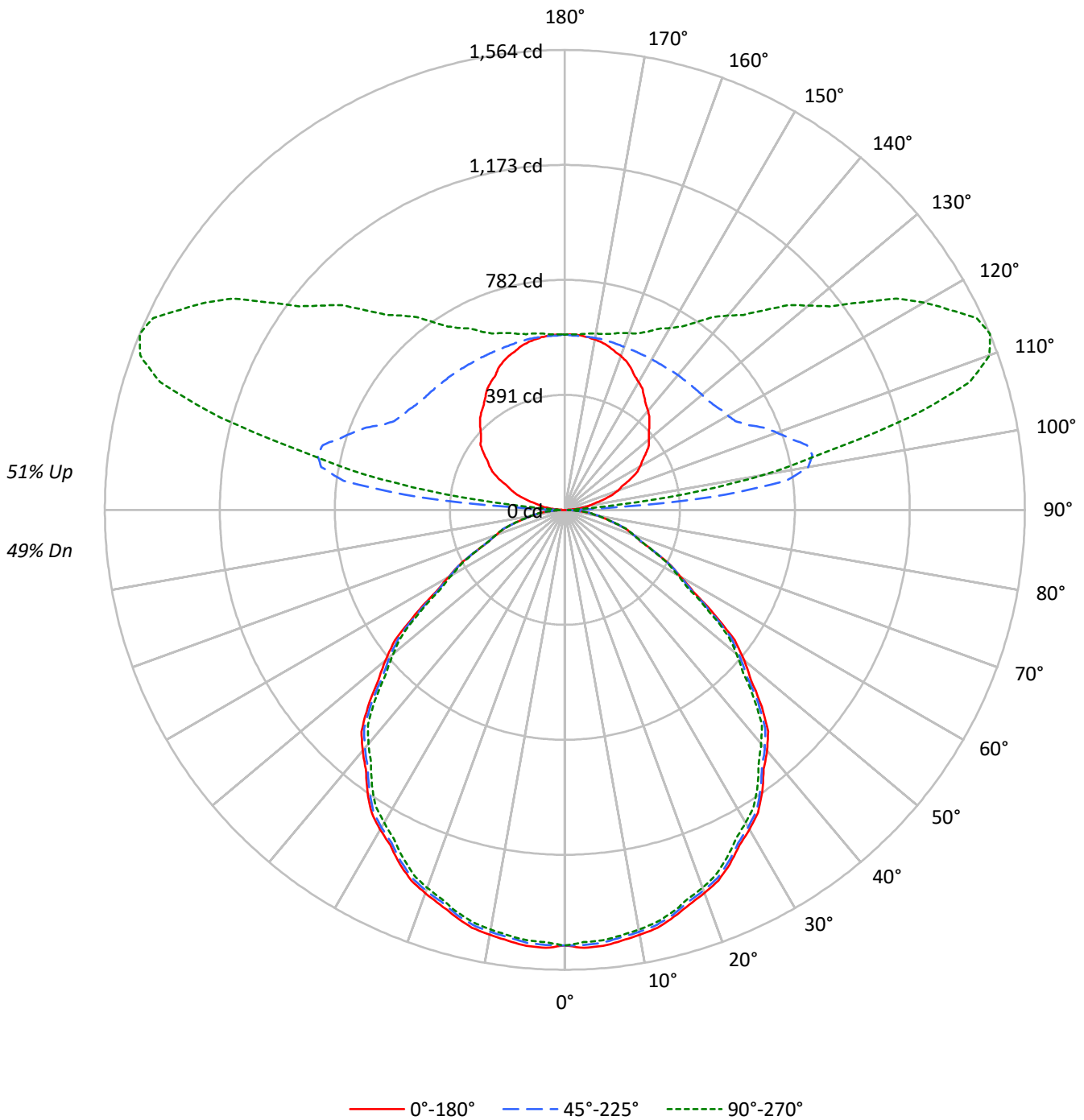
Lumens per Lamp: N/A
Luminaire Lumens: 7587.2 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47				42	
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40				35	
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34				30	
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30				26	
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26				23	
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23				20	
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21				18	
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18				16	
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17				14	
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15				13	

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	1.8
10°-20°	400.8	5.3
20°-30°	604.6	8.0
30°-40°	720.4	9.5
40°-50°	710.2	9.4
50°-60°	542.8	7.2
60°-70°	335.9	4.4
70°-80°	190.8	2.5
80°-90°	59.5	0.8
90°-100°	281.1	3.7
100°-110°	773.3	10.2
110°-120°	798.1	10.5
120°-130°	639.5	8.4
130°-140°	502.3	6.6
140°-150°	384.9	5.1
150°-160°	276.7	3.6
160°-170°	169.2	2.2
170°-180°	57.0	0.8
0°-30°	1145.5	15.1
0°-40°	1865.9	24.6
0°-60°	3118.9	41.1
0°-90°	3705.1	48.8
90°-120°	1852.5	24.4
90°-150°	3379.1	44.5
90°-180°	3882.0	51.2
0°-180°	7587.2	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	5	9	11	11	5
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	



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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	18.3	22.2	22.7	21.7
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)