

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: P519794

Luminaire Tested: **SQ4-F-025U-050D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519794
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

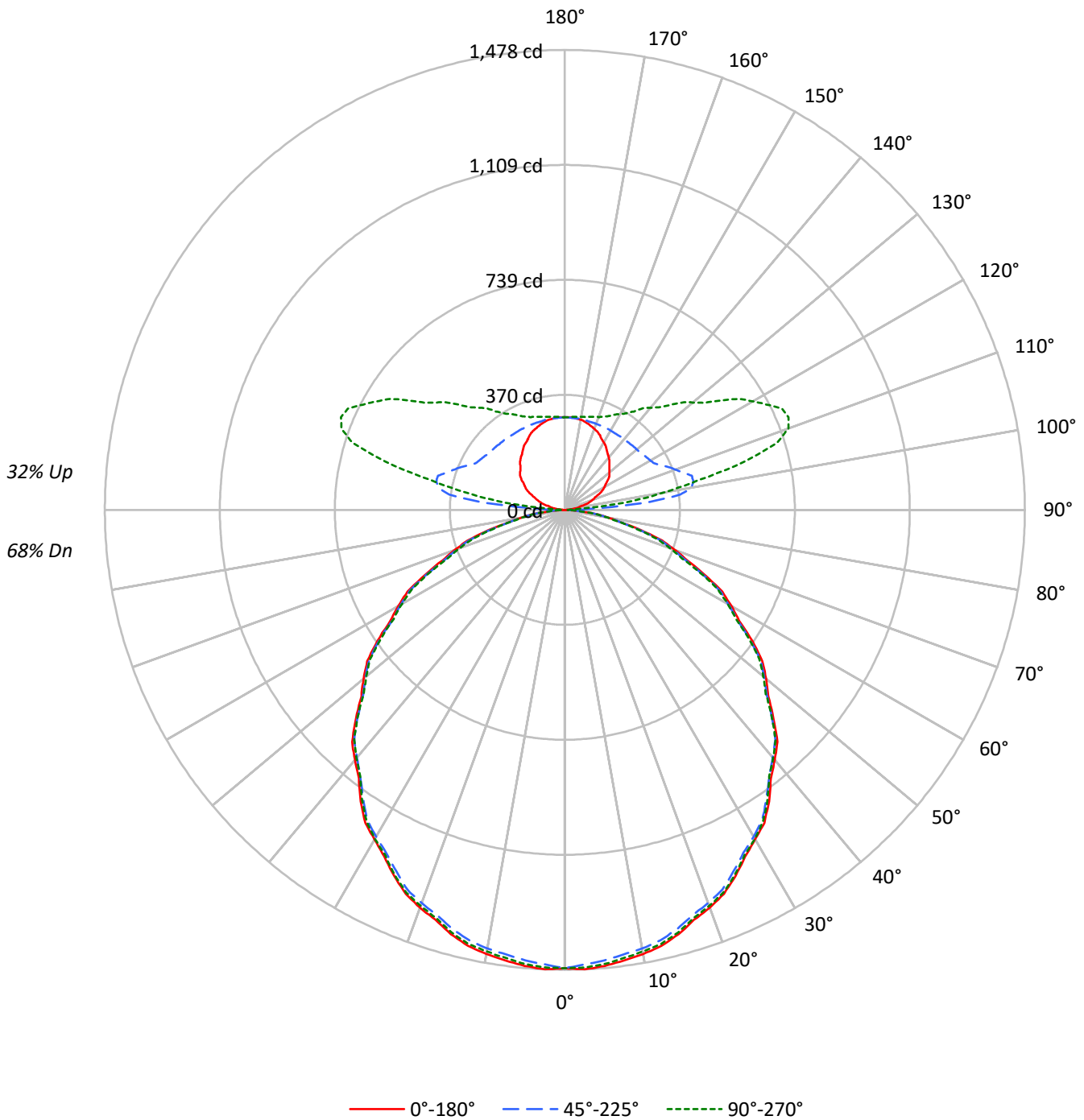
Lumens per Lamp: N/A
Luminaire Lumens: 5954.1 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68				
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57				
2	93	85	78	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47				
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	43	40				
4	77	66	58	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34				
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	32	30				
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26				
7	60	48	39	34	57	45	38	32	41	35	30	37	32	28	33	29	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18				
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6796	6796	6796
5°	6813	6730	6785
10°	6790	6707	6753
15°	6743	6659	6715
20°	6680	6603	6651
25°	6605	6525	6585
30°	6513	6460	6502
35°	6441	6364	6397
40°	6318	6259	6271
45°	6189	6137	6137
50°	6058	6001	5972
55°	5916	5837	5805
60°	5695	5604	5568
65°	5425	5317	5253
70°	5054	4947	4841
75°	4534	4394	4288
80°	3666	3616	3509
85°	2191	2504	2609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	2.3
10°-20°	395.8	6.6
20°-30°	594.5	10.0
30°-40°	709.7	11.9
40°-50°	727.2	12.2
50°-60°	648.6	10.9
60°-70°	483.0	8.1
70°-80°	262.2	4.4
80°-90°	62.3	1.0
90°-100°	145.2	2.4
100°-110°	381.9	6.4
110°-120°	396.0	6.7
120°-130°	317.6	5.3
130°-140°	249.2	4.2
140°-150°	191.3	3.2
150°-160°	137.8	2.3
160°-170°	84.3	1.4
170°-180°	28.5	0.5
0°-30°	1129.3	19.0
0°-40°	1839.0	30.9
0°-60°	3214.8	54.0
0°-90°	4022.3	67.6
90°-120°	923.1	15.5
90°-150°	1681.2	28.2
90°-180°	1932.0	32.4
0°-180°	5954.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1471	1469	1453	1467	1465	140
15°	1412	1408	1394	1406	1406	398
25°	1298	1294	1282	1290	1294	598
35°	1144	1140	1130	1130	1136	714
45°	949	951	941	939	941	732
55°	736	736	726	720	722	655
65°	497	495	487	481	481	492
75°	254	252	246	243	241	269
85°	41	45	47	49	49	58
90°	2	6	15	8	8	3
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.2	1473.2	1473.2	1473.2	1473.2
2.5°	1477.9	1474.8	1462.1	1473.2	1471.6
5°	1471.2	1469.2	1453.4	1467.3	1465.3
7.5°	1460.5	1456.7	1441.2	1454.6	1452.7
10°	1449.5	1445.7	1431.8	1443.6	1441.6
12.5°	1435.3	1433.0	1417.6	1429.4	1429.0
15°	1412.0	1408.2	1394.3	1406.1	1406.1
17.5°	1381.3	1379.0	1365.5	1376.9	1375.4
20°	1360.8	1356.9	1345.0	1354.8	1354.8
22.5°	1335.5	1333.2	1321.3	1329.6	1331.2
25°	1297.7	1293.8	1281.9	1289.9	1293.7
27.5°	1255.8	1252.8	1242.8	1248.1	1250.7
30°	1222.7	1222.7	1212.8	1214.9	1220.7
32.5°	1192.7	1192.7	1181.3	1183.4	1186.0
35°	1143.8	1140.0	1130.0	1130.1	1135.9
37.5°	1087.0	1085.1	1078.7	1077.6	1079.1
40°	1049.2	1047.2	1039.3	1041.3	1041.3
42.5°	1011.3	1009.3	1001.4	998.8	1001.8
45°	948.6	950.6	940.7	938.7	940.7
47.5°	886.7	886.7	878.8	873.4	876.4
50°	844.1	844.1	836.2	832.2	832.2
52.5°	799.9	801.5	792.0	786.5	788.1
55°	735.6	735.6	725.7	719.8	721.8
57.5°	664.6	664.6	654.7	648.9	652.4
60°	617.3	617.3	607.4	601.5	603.5
62.5°	569.9	569.9	560.1	554.2	554.6
65°	497.0	495.0	487.1	481.2	481.2
67.5°	426.8	421.7	415.7	407.8	407.8
70°	374.7	372.7	366.8	358.9	358.9
72.5°	327.4	323.9	317.9	311.6	311.6
75°	254.4	252.4	246.5	242.6	240.6
77.5°	182.2	180.6	180.3	174.7	176.3
80°	138.0	138.0	136.1	132.1	132.1
82.5°	98.6	100.2	96.6	95.8	94.3
85°	41.4	45.3	47.3	49.3	49.3
87.5°	8.3	13.7	14.2	14.2	14.2
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.6	85.5	37.9	24.5
95°	19.1	75.1	250.2	128.9	87.8
97.5°	33.3	82.6	374.5	297.8	219.4
100°	44.0	88.8	412.6	418.2	324.8
102.5°	53.1	94.9	423.4	520.9	440.9
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.6	769.9
117.5°	137.9	161.8	323.3	626.8	732.5
120°	147.1	169.6	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.1	303.4	485.6	564.3
130°	187.3	209.6	301.9	464.0	536.9
132.5°	193.4	215.7	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.3	297.7	400.3	446.3
140°	219.8	238.4	296.1	385.0	427.9
142.5°	225.9	243.0	296.1	374.1	411.1
145°	235.0	250.0	294.2	357.9	386.0
147.5°	244.1	258.8	294.2	344.4	367.6
150°	250.2	263.3	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.4	344.7
155°	265.5	273.1	294.2	323.1	332.4
157.5°	272.4	279.6	294.2	316.6	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.1	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.7	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	299.9	299.9
177.5°	298.0	298.0	296.5	299.6	298.0
180°	298.0	298.0	298.0	298.0	298.0

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