

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: P563280

Luminaire Tested: **SQ4-PP3-050U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563280
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

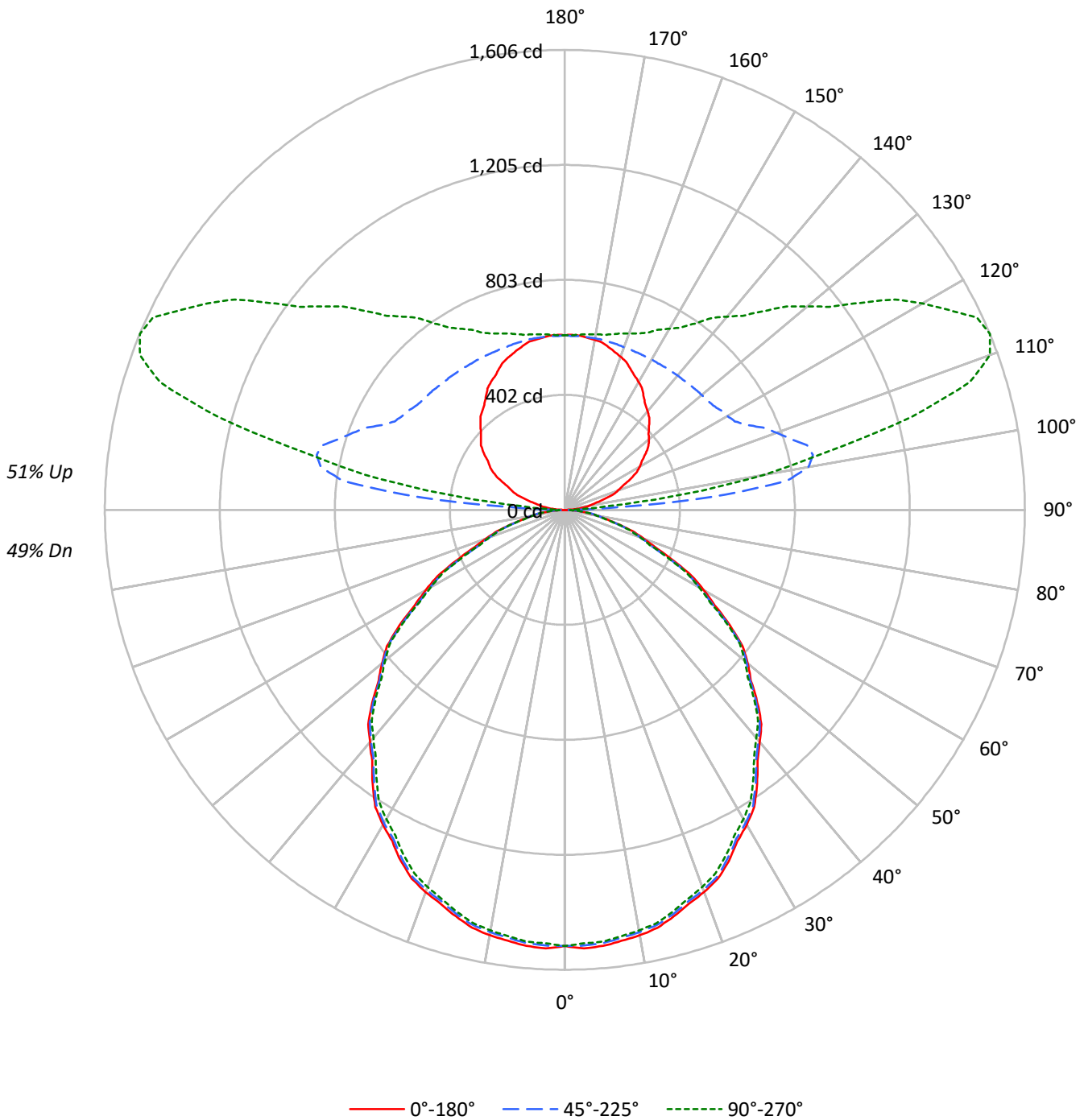
Lumens per Lamp: N/A
Luminaire Lumens: 7884.9 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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	99	99	99	99	83	83	83	69	69	69	56	56	56	49				49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47				42	
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40				36	
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34				30	
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30				26	
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26				23	
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20				18	
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18				16	
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7010
10°	7067	7017	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5978	5940	5883
55°	5669	5594	5551
60°	5161	5014	4989
65°	4546	4357	4342
70°	3925	3763	3763
75°	3379	3331	3283
80°	2978	3015	2943
85°	2334	2546	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.8
10°-20°	411.3	5.2
20°-30°	616.0	7.8
30°-40°	722.6	9.2
40°-50°	724.8	9.2
50°-60°	618.3	7.8
60°-70°	403.3	5.1
70°-80°	202.3	2.6
80°-90°	58.4	0.7
90°-100°	292.9	3.7
100°-110°	795.7	10.1
110°-120°	818.1	10.4
120°-130°	654.1	8.3
130°-140°	513.9	6.5
140°-150°	394.1	5.0
150°-160°	283.4	3.6
160°-170°	173.3	2.2
170°-180°	58.4	0.7
0°-30°	1171.3	14.9
0°-40°	1893.9	24.0
0°-60°	3237.1	41.1
0°-90°	3901.0	49.5
90°-120°	1906.7	24.2
90°-150°	3468.7	44.0
90°-180°	3984.0	50.5
0°-180°	7884.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1529	1514	1519	1514	1514	145
15°	1470	1456	1462	1456	1454	415
25°	1354	1338	1344	1332	1331	622
35°	1170	1158	1162	1148	1147	731
45°	950	944	944	934	934	732
55°	705	702	696	692	690	626
65°	416	409	399	396	398	416
75°	190	190	187	186	184	206
85°	44	48	48	48	48	52
90°	2	8	14	18	18	5
95°	43	160	510	222	149	46
105°	141	220	875	1332	1254	150
115°	251	305	700	1393	1587	248
125°	345	393	634	1068	1260	308
135°	416	462	616	870	981	322
145°	481	515	608	739	795	302
155°	543	563	604	664	683	251
165°	589	596	606	632	634	166
175°	610	612	608	616	614	58
180°	610	610	610	610	610	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.3	1523.3	1523.3	1523.3	1523.3
2.5°	1532.9	1520.3	1523.3	1521.0	1514.7
5°	1528.6	1514.2	1519.2	1513.9	1513.9
7.5°	1518.2	1502.5	1507.5	1502.2	1501.9
10°	1508.6	1492.9	1497.9	1492.5	1491.2
12.5°	1494.7	1479.0	1485.1	1478.7	1478.4
15°	1469.9	1455.5	1461.8	1456.4	1453.8
17.5°	1441.8	1426.2	1433.8	1426.3	1425.3
20°	1420.5	1404.8	1412.4	1401.8	1401.8
22.5°	1394.8	1379.2	1387.9	1374.0	1374.0
25°	1353.7	1338.0	1344.4	1332.3	1331.0
27.5°	1304.8	1289.4	1296.0	1282.4	1282.1
30°	1269.6	1255.2	1262.9	1248.2	1246.9
32.5°	1231.2	1217.8	1223.4	1208.7	1207.4
35°	1169.5	1157.7	1161.5	1148.1	1146.8
37.5°	1104.6	1092.6	1096.8	1085.4	1084.8
40°	1058.7	1050.8	1052.0	1042.6	1040.0
42.5°	1015.9	1007.1	1008.2	998.8	998.3
45°	950.5	944.0	943.9	934.5	934.5
47.5°	881.1	876.1	874.7	867.0	866.7
50°	833.0	829.1	827.7	821.0	819.7
52.5°	782.9	781.0	776.4	770.8	770.6
55°	704.9	702.3	695.5	691.5	690.2
57.5°	620.2	615.0	607.4	601.6	602.6
60°	559.4	554.2	543.4	540.7	540.7
62.5°	500.6	494.4	483.5	479.9	481.9
65°	416.5	408.7	399.2	396.5	397.8
67.5°	340.2	333.1	322.8	322.8	321.7
70°	291.0	287.1	279.0	279.0	279.0
72.5°	247.2	245.4	239.5	239.5	238.4
75°	189.6	189.6	186.9	185.5	184.2
77.5°	142.0	142.6	141.2	139.9	137.5
80°	112.1	114.8	113.5	112.1	110.8
82.5°	84.4	87.0	86.8	84.4	84.1
85°	44.1	48.0	48.1	48.1	48.1
87.5°	12.1	17.5	19.8	20.6	21.7
90°	2.0	7.7	13.7	17.7	17.7
92.5°	17.7	80.2	139.3	59.8	50.6
95°	43.2	160.2	510.1	222.0	149.1
97.5°	71.4	176.9	782.0	608.4	427.3
100°	90.2	188.1	865.2	877.1	708.2
102.5°	109.1	199.2	887.2	1084.7	935.8
105°	141.3	219.9	875.0	1332.3	1253.6
107.5°	174.6	244.1	824.4	1460.1	1482.0
110°	198.2	261.5	786.7	1485.3	1579.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.6	278.8	749.1	1464.4	1606.0
115°	251.1	304.8	700.4	1393.4	1587.2
117.5°	281.7	333.1	669.4	1292.7	1511.0
120°	302.1	352.0	655.3	1225.2	1442.0
122.5°	319.4	369.3	645.9	1157.6	1366.7
125°	345.3	393.3	633.7	1067.7	1259.5
127.5°	368.4	416.0	627.0	999.6	1164.2
130°	382.6	428.6	623.9	956.8	1104.5
132.5°	396.7	442.7	620.7	920.4	1051.2
135°	415.9	462.0	616.0	869.7	980.9
137.5°	436.7	478.5	613.7	824.9	918.6
140°	449.3	489.6	612.1	796.5	880.9
142.5°	461.8	499.0	610.5	774.2	844.8
145°	480.7	515.2	608.2	738.9	794.6
147.5°	501.9	531.4	606.2	711.2	754.9
150°	516.0	540.9	606.2	695.3	729.8
152.5°	527.0	548.8	604.7	681.0	709.4
155°	543.4	562.6	604.3	663.6	682.7
157.5°	559.5	574.5	604.3	651.7	666.3
160°	568.9	582.4	604.3	643.8	655.3
162.5°	578.4	588.7	605.8	637.4	645.9
165°	588.6	596.2	606.2	631.8	633.7
167.5°	599.2	603.0	608.2	625.1	626.6
170°	602.3	606.1	608.2	621.9	621.9
172.5°	605.4	607.7	608.2	618.8	618.8
175°	610.1	612.1	608.2	616.0	614.1
177.5°	611.7	611.7	607.0	613.2	610.1
180°	610.1	610.1	610.1	610.1	610.1

(END OF REPORT)