

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: P563284

Luminaire Tested: **SQ4-PP3-050U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563284
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

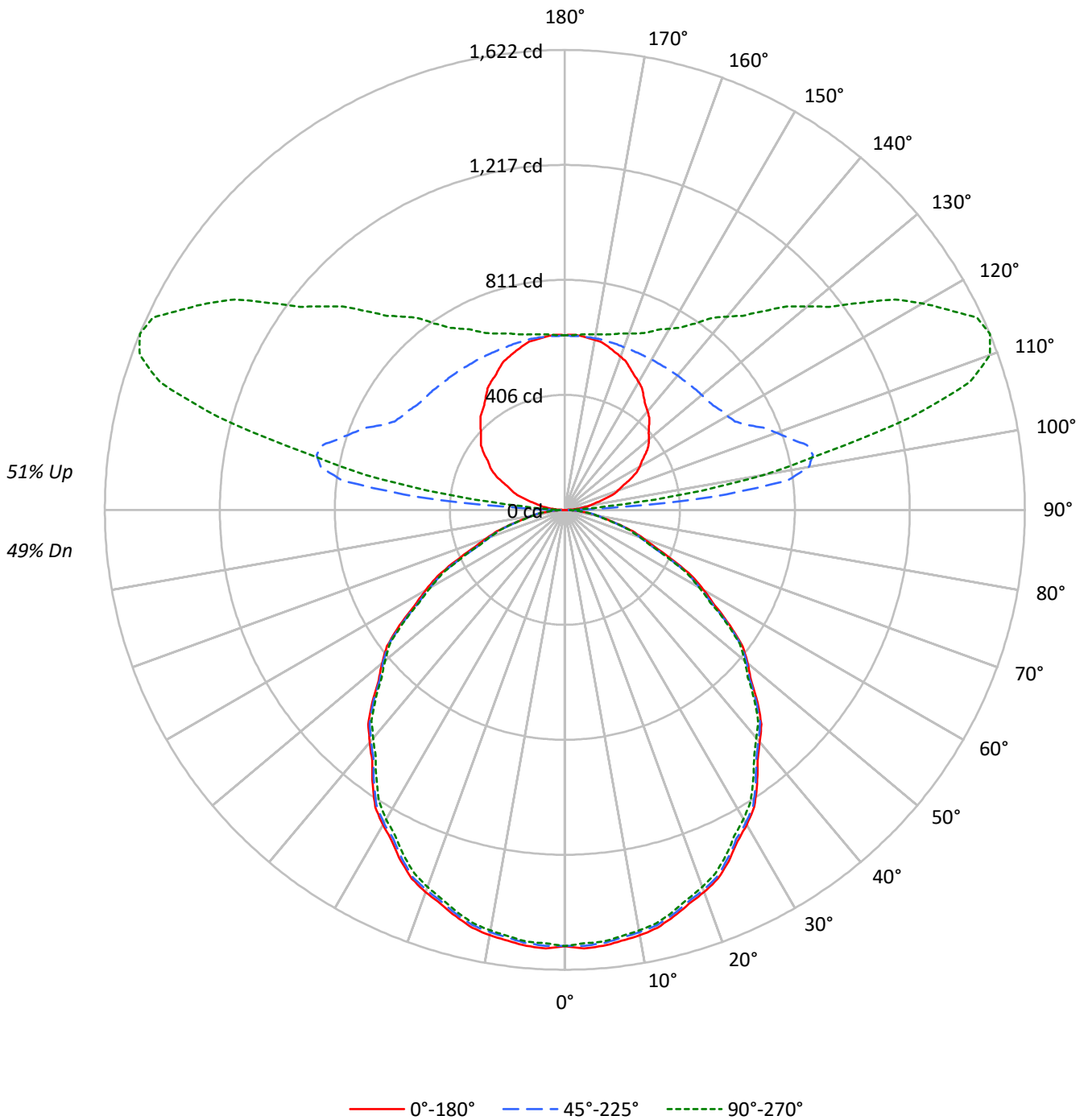
Lumens per Lamp: N/A
Luminaire Lumens: 7964.2 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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				
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°	7098	7098	7098
5°	7150	7106	7081
10°	7137	7087	7055
15°	7090	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6220	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5038
65°	4592	4401	4386
70°	3965	3801	3801
75°	3413	3365	3317
80°	3010	3044	2973
85°	2355	2567	2567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	1.8
10°-20°	415.4	5.2
20°-30°	622.2	7.8
30°-40°	729.9	9.2
40°-50°	732.1	9.2
50°-60°	624.6	7.8
60°-70°	407.3	5.1
70°-80°	204.4	2.6
80°-90°	58.9	0.7
90°-100°	295.8	3.7
100°-110°	803.7	10.1
110°-120°	826.3	10.4
120°-130°	660.7	8.3
130°-140°	519.1	6.5
140°-150°	398.0	5.0
150°-160°	286.2	3.6
160°-170°	175.1	2.2
170°-180°	59.0	0.7
0°-30°	1183.1	14.9
0°-40°	1913.0	24.0
0°-60°	3269.7	41.1
0°-90°	3940.3	49.5
90°-120°	1925.8	24.2
90°-150°	3503.7	44.0
90°-180°	4024.0	50.5
0°-180°	7964.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1544	1530	1534	1529	1529	147
15°	1485	1470	1477	1471	1468	419
25°	1367	1352	1358	1346	1344	629
35°	1181	1169	1173	1160	1158	738
45°	960	954	953	944	944	739
55°	712	709	702	698	697	633
65°	421	413	403	400	402	420
75°	192	192	189	187	186	208
85°	44	48	48	48	48	52
90°	2	8	14	18	18	5
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1548.3	1535.6	1538.6	1536.3	1530.0
5°	1544.0	1529.5	1534.5	1529.1	1529.1
7.5°	1533.5	1517.6	1522.7	1517.3	1517.0
10°	1523.7	1507.9	1513.0	1507.5	1506.2
12.5°	1509.7	1493.9	1500.0	1493.5	1493.3
15°	1484.6	1470.1	1476.6	1471.1	1468.5
17.5°	1456.3	1440.5	1448.2	1440.7	1439.6
20°	1434.8	1418.9	1426.7	1415.9	1415.9
22.5°	1408.9	1393.0	1401.8	1387.8	1387.8
25°	1367.3	1351.5	1357.9	1345.7	1344.4
27.5°	1318.0	1302.4	1309.1	1295.3	1295.1
30°	1282.4	1267.9	1275.6	1260.8	1259.5
32.5°	1243.5	1230.1	1235.7	1220.9	1219.5
35°	1181.2	1169.4	1173.2	1159.6	1158.3
37.5°	1115.7	1103.6	1107.9	1096.3	1095.7
40°	1069.3	1061.4	1062.6	1053.1	1050.4
42.5°	1026.2	1017.2	1018.3	1008.9	1008.4
45°	960.1	953.5	953.4	943.9	943.9
47.5°	890.0	885.0	883.5	875.7	875.4
50°	841.4	837.5	836.0	829.3	827.9
52.5°	790.7	788.9	784.3	778.6	778.3
55°	712.0	709.3	702.5	698.5	697.1
57.5°	626.5	621.2	613.5	607.6	608.7
60°	565.0	559.7	548.8	546.1	546.1
62.5°	505.7	499.3	488.4	484.7	486.8
65°	420.7	412.8	403.2	400.5	401.8
67.5°	343.6	336.5	326.1	326.0	325.0
70°	294.0	290.0	281.8	281.8	281.8
72.5°	249.7	247.9	241.9	241.9	240.8
75°	191.5	191.5	188.8	187.4	186.1
77.5°	143.5	144.0	142.7	141.3	138.9
80°	113.3	115.9	114.6	113.2	111.9
82.5°	85.2	87.9	87.6	85.2	85.0
85°	44.5	48.5	48.5	48.5	48.5
87.5°	12.3	17.6	20.0	20.9	21.9
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)