

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: P563248

Luminaire Tested: **SQ4-PP3-025U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563248
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

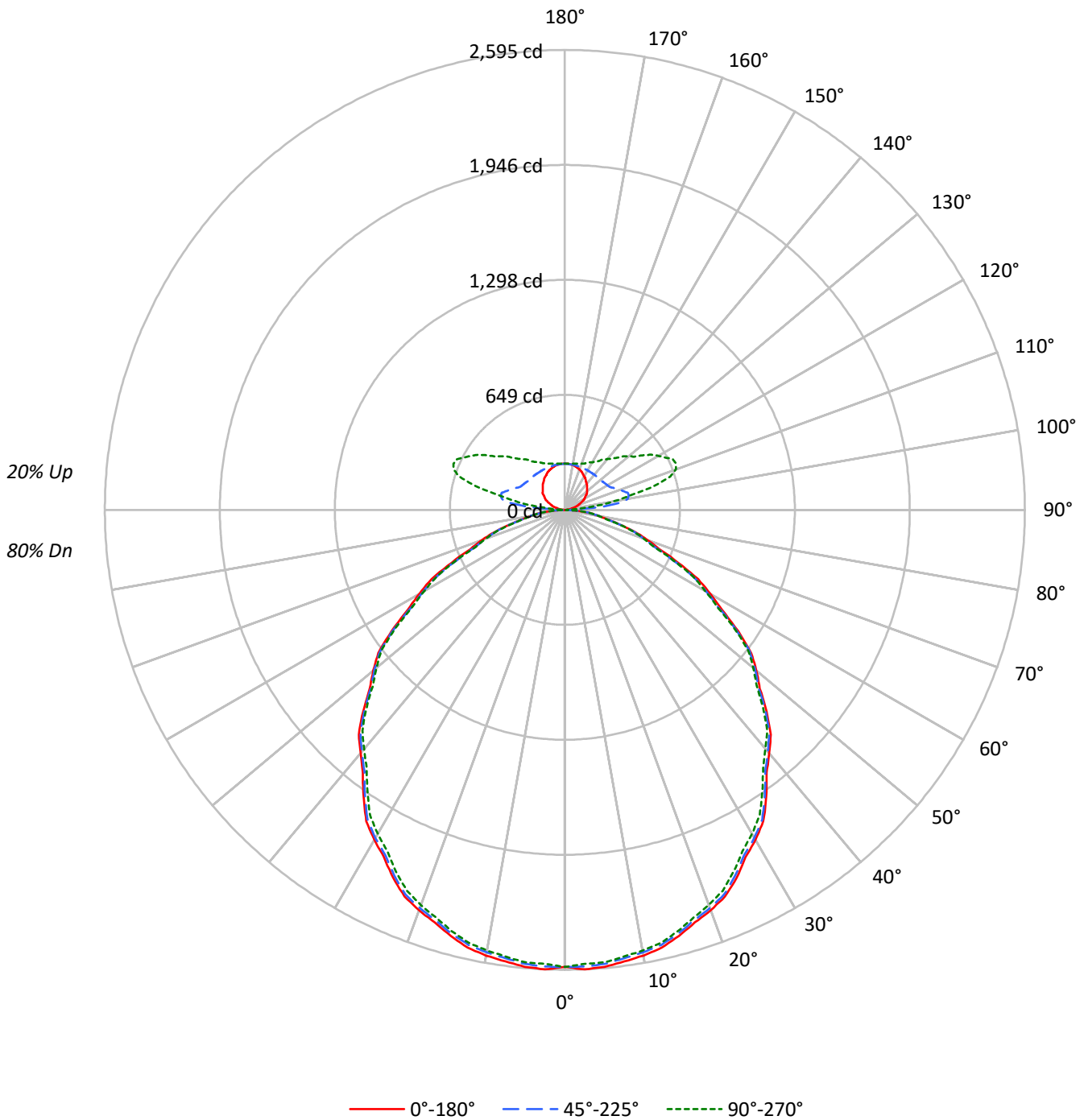
Lumens per Lamp: N/A
Luminaire Lumens: 8288.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	89	88	85	83	81	79	77	74	73	71	68
2	96	88	82	76	91	84	79	74	78	73	69	71	68	65	66	63	60	57
3	87	78	70	64	83	75	68	62	69	63	59	63	59	55	58	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	36
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	34	32
7	63	50	42	36	60	49	41	35	45	39	34	42	36	32	39	34	31	28
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	25
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	28	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11963	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11245
35°	11150	11073	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10121	10057	9959
55°	9597	9470	9398
60°	8737	8487	8446
65°	7698	7377	7352
70°	6645	6372	6372
75°	5720	5639	5559
80°	5045	5103	4984
85°	3949	4308	4308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	2.9
10°-20°	696.3	8.4
20°-30°	1042.9	12.6
30°-40°	1223.3	14.8
40°-50°	1227.1	14.8
50°-60°	1046.8	12.6
60°-70°	682.7	8.2
70°-80°	342.5	4.1
80°-90°	96.2	1.2
90°-100°	126.8	1.5
100°-110°	333.5	4.0
110°-120°	345.8	4.2
120°-130°	277.3	3.3
130°-140°	217.6	2.6
140°-150°	167.0	2.0
150°-160°	120.3	1.5
160°-170°	73.6	0.9
170°-180°	24.9	0.3
0°-30°	1983.0	23.9
0°-40°	3206.4	38.7
0°-60°	5480.3	66.1
0°-90°	6601.7	79.6
90°-120°	806.1	9.7
90°-150°	1468.1	17.7
90°-180°	1687.0	20.4
0°-180°	8288.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2588	2564	2572	2563	2563	246
15°	2488	2464	2475	2466	2461	702
25°	2292	2265	2276	2256	2253	1054
35°	1980	1960	1966	1944	1941	1237
45°	1609	1598	1598	1582	1582	1239
55°	1193	1189	1178	1171	1168	1061
65°	705	692	676	671	674	704
75°	321	321	316	314	312	348
85°	75	81	81	81	81	88
90°	2	5	13	7	7	4
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.8	2578.8	2578.8	2578.8	2578.8
2.5°	2595.1	2573.9	2578.8	2574.9	2564.3
5°	2587.8	2563.5	2572.0	2563.0	2563.0
7.5°	2570.2	2543.7	2552.1	2543.1	2542.6
10°	2553.9	2527.4	2535.9	2526.8	2524.6
12.5°	2530.4	2503.9	2514.2	2503.3	2502.9
15°	2488.4	2464.1	2474.8	2465.7	2461.3
17.5°	2440.9	2414.4	2427.4	2414.7	2412.9
20°	2404.8	2378.3	2391.2	2373.1	2373.1
22.5°	2361.4	2334.9	2349.6	2326.1	2326.1
25°	2291.8	2265.2	2275.9	2255.6	2253.3
27.5°	2209.0	2183.0	2194.1	2171.1	2170.6
30°	2149.4	2125.1	2138.1	2113.2	2111.0
32.5°	2084.3	2061.7	2071.2	2046.3	2044.1
35°	1979.9	1960.0	1966.3	1943.7	1941.4
37.5°	1870.0	1849.7	1856.9	1837.5	1836.6
40°	1792.3	1779.0	1781.0	1765.1	1760.6
42.5°	1720.0	1704.9	1706.8	1691.0	1690.1
45°	1609.2	1598.2	1597.9	1582.1	1582.1
47.5°	1491.7	1483.3	1480.8	1467.7	1467.3
50°	1410.3	1403.7	1401.3	1389.9	1387.7
52.5°	1325.3	1322.2	1314.5	1305.0	1304.5
55°	1193.3	1188.9	1177.5	1170.7	1168.5
57.5°	1050.1	1041.2	1028.4	1018.5	1020.2
60°	947.0	938.2	919.9	915.4	915.4
62.5°	847.5	836.9	818.6	812.4	815.9
65°	705.2	691.9	675.8	671.3	673.5
67.5°	575.9	563.9	546.5	546.5	544.7
70°	492.7	486.1	472.4	472.4	472.4
72.5°	418.6	415.5	405.5	405.4	403.7
75°	320.9	320.9	316.4	314.1	311.9
77.5°	240.5	241.4	239.1	236.8	232.8
80°	189.9	194.3	192.1	189.8	187.6
82.5°	142.8	147.3	146.9	142.8	142.4
85°	74.6	81.2	81.4	81.4	81.4
87.5°	20.2	27.9	31.6	30.3	32.1
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)