

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: P563241

Luminaire Tested: **SQ4-PP3-025U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563241
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-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

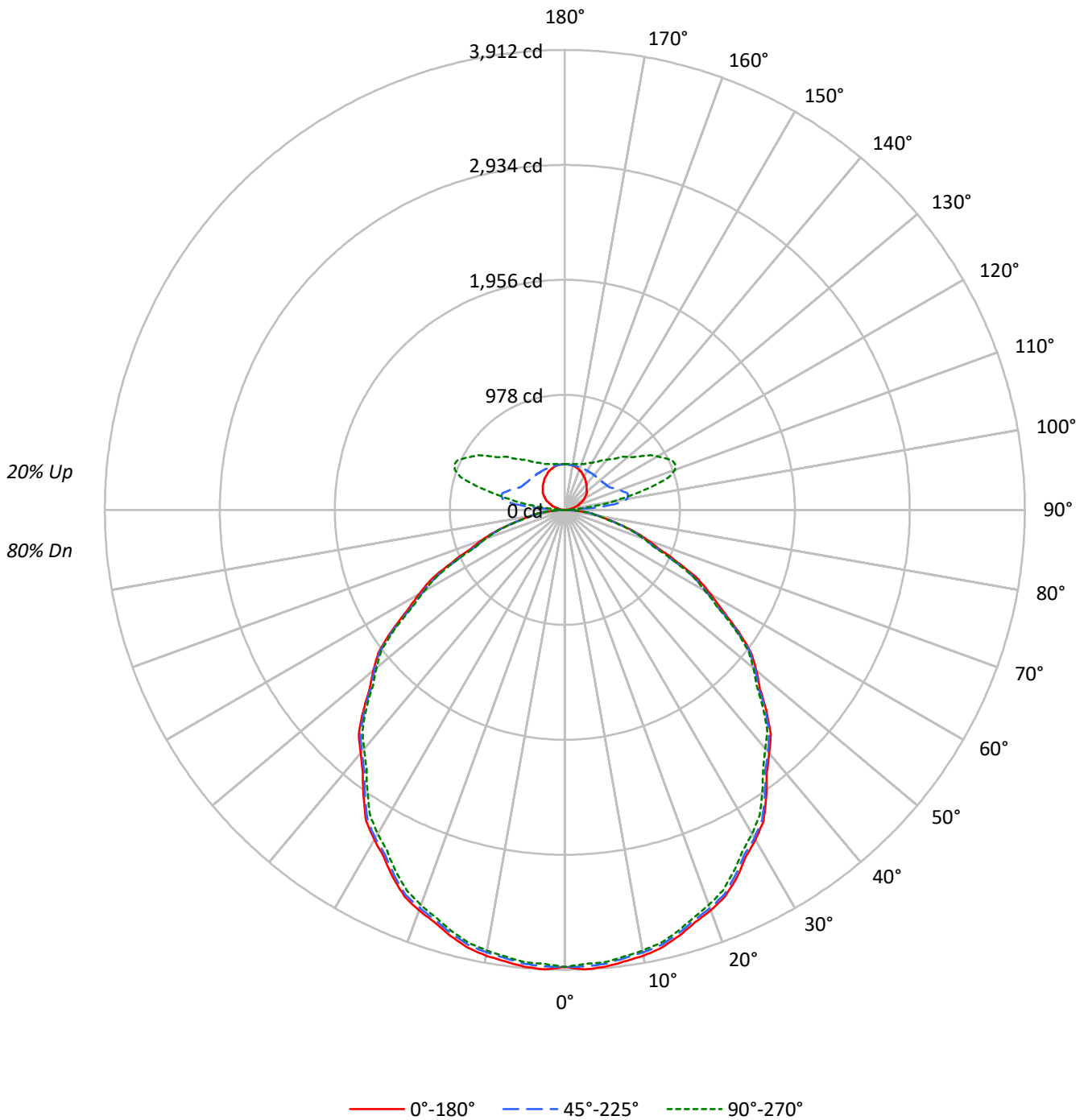
Lumens per Lamp: N/A
Luminaire Lumens: 12470.9 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 123.6
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	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	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	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	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°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11815
20°	11866	11799	11710
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9647	9519	9446
60°	8781	8530	8488
65°	7736	7414	7389
70°	6679	6404	6404
75°	5750	5668	5587
80°	5069	5129	5009
85°	3966	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	2.9
10°-20°	1049.7	8.4
20°-30°	1572.4	12.6
30°-40°	1844.3	14.8
40°-50°	1850.1	14.8
50°-60°	1578.3	12.7
60°-70°	1029.3	8.3
70°-80°	516.4	4.1
80°-90°	145.0	1.2
90°-100°	189.3	1.5
100°-110°	497.7	4.0
110°-120°	516.1	4.1
120°-130°	414.0	3.3
130°-140°	324.8	2.6
140°-150°	249.3	2.0
150°-160°	179.6	1.4
160°-170°	109.9	0.9
170°-180°	37.1	0.3
0°-30°	2989.8	24.0
0°-40°	4834.1	38.8
0°-60°	8262.4	66.3
0°-90°	9953.1	79.8
90°-120°	1203.2	9.6
90°-150°	2191.3	17.6
90°-180°	2518.0	20.2
0°-180°	12470.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3888	3888	3888	3888	3888	
5°	3902	3865	3878	3864	3864	371
15°	3752	3715	3731	3717	3711	1058
25°	3455	3415	3431	3401	3397	1589
35°	2985	2955	2964	2930	2927	1865
45°	2426	2410	2409	2385	2385	1868
55°	1799	1792	1775	1765	1762	1599
65°	1063	1043	1019	1012	1015	1061
75°	484	484	477	474	470	525
85°	112	122	123	123	123	132
90°	2	7	20	10	10	6
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3887.9	3887.9	3887.9	3887.9	3887.9
2.5°	3912.5	3880.5	3887.9	3882.1	3866.1
5°	3901.6	3864.9	3877.7	3864.1	3864.1
7.5°	3875.0	3835.0	3847.7	3834.1	3833.4
10°	3850.5	3810.5	3823.2	3809.5	3806.2
12.5°	3815.0	3775.0	3790.5	3774.1	3773.5
15°	3751.6	3715.0	3731.2	3717.4	3710.8
17.5°	3680.1	3640.1	3659.6	3640.5	3637.8
20°	3625.6	3585.6	3605.1	3577.9	3577.9
22.5°	3560.1	3520.2	3542.4	3507.0	3507.0
25°	3455.2	3415.2	3431.3	3400.6	3397.3
27.5°	3330.5	3291.2	3308.0	3273.2	3272.6
30°	3240.5	3203.9	3223.5	3185.9	3182.6
32.5°	3142.4	3108.4	3122.6	3085.1	3081.7
35°	2985.0	2955.0	2964.5	2930.4	2927.0
37.5°	2819.4	2788.7	2799.6	2770.3	2768.9
40°	2702.1	2682.2	2685.1	2661.1	2654.4
42.5°	2593.1	2570.4	2573.3	2549.5	2548.1
45°	2426.1	2409.5	2409.1	2385.2	2385.2
47.5°	2248.9	2236.3	2232.6	2212.8	2212.1
50°	2126.3	2116.3	2112.6	2095.5	2092.2
52.5°	1998.2	1993.5	1981.8	1967.5	1966.8
55°	1799.2	1792.5	1775.3	1765.0	1761.7
57.5°	1583.1	1569.8	1550.4	1535.5	1538.1
60°	1427.7	1414.4	1386.8	1380.0	1380.0
62.5°	1277.8	1261.8	1234.2	1224.8	1230.1
65°	1063.1	1043.1	1018.8	1012.1	1015.4
67.5°	868.2	850.2	823.9	823.9	821.2
70°	742.8	732.8	712.2	712.2	712.2
72.5°	631.1	626.4	611.3	611.2	608.6
75°	483.9	483.9	477.0	473.6	470.2
77.5°	362.6	363.9	360.5	357.0	351.0
80°	286.2	292.9	289.6	286.2	282.8
82.5°	215.4	222.0	221.5	215.3	214.7
85°	112.4	122.4	122.7	122.7	122.7
87.5°	30.5	42.1	47.6	45.7	48.3
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)