

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: P563647

Luminaire Tested: **SQ4-PP3-100U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563647
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

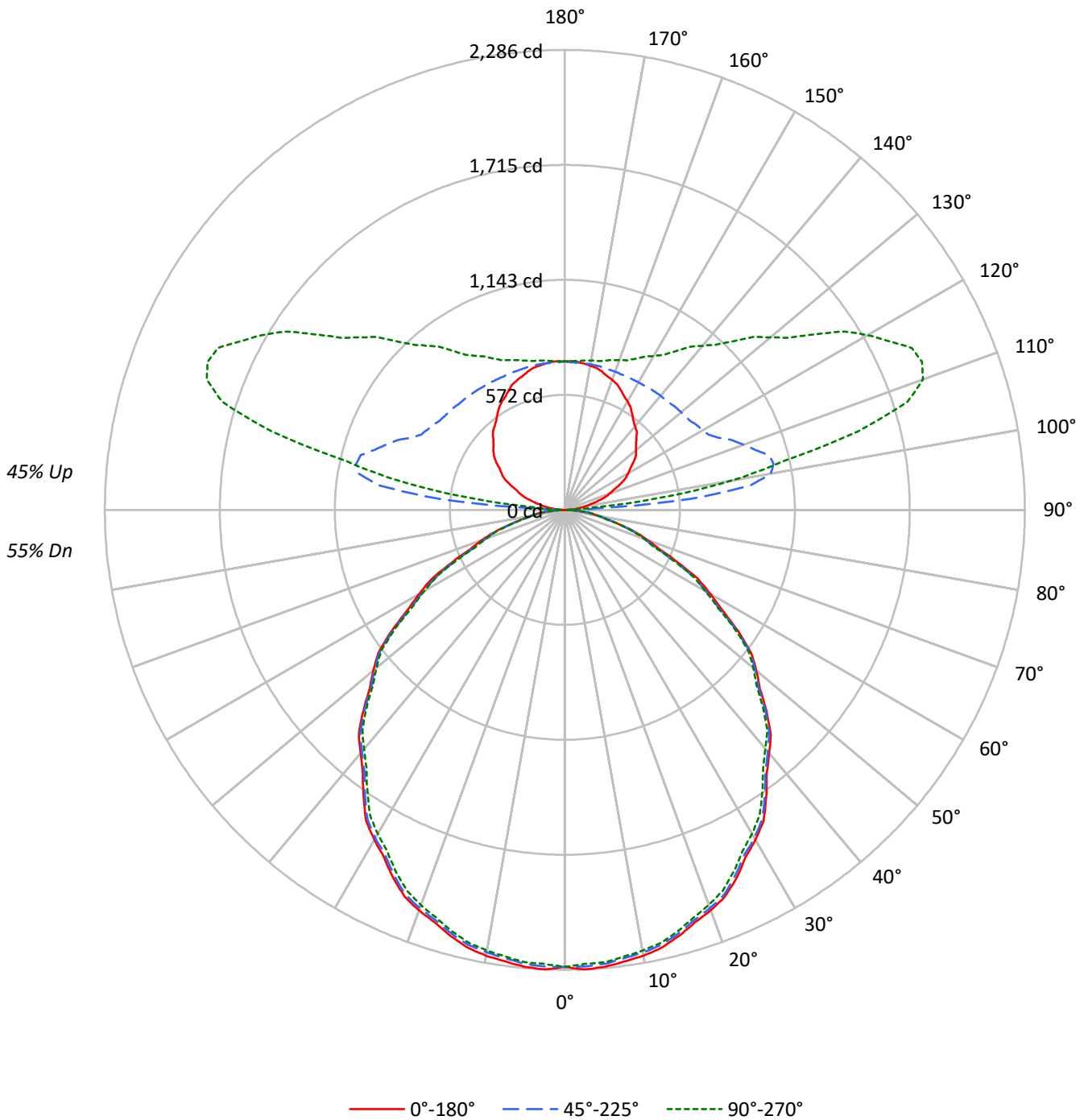
Lumens per Lamp: N/A
Luminaire Lumens: 10610.5 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13975	13975	13975
5°	14077	13991	13942
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13790	13685
25°	13703	13608	13473
30°	13449	13379	13209
35°	13097	13007	12843
40°	12678	12599	12454
45°	12332	12246	12124
50°	11889	11813	11699
55°	11275	11125	11039
60°	10263	9969	9920
65°	9042	8665	8636
70°	7807	7485	7485
75°	6721	6626	6531
80°	5926	5997	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	2.0
10°-20°	613.4	5.8
20°-30°	918.8	8.7
30°-40°	1077.7	10.2
40°-50°	1081.1	10.2
50°-60°	922.3	8.7
60°-70°	601.5	5.7
70°-80°	301.8	2.8
80°-90°	85.0	0.8
90°-100°	345.5	3.3
100°-110°	953.9	9.0
110°-120°	983.8	9.3
120°-130°	790.5	7.5
130°-140°	621.3	5.9
140°-150°	476.5	4.5
150°-160°	342.5	3.2
160°-170°	209.4	2.0
170°-180°	70.6	0.7
0°-30°	1747.1	16.5
0°-40°	2824.8	26.6
0°-60°	4828.2	45.5
0°-90°	5816.5	54.8
90°-120°	2283.2	21.5
90°-150°	4171.5	39.3
90°-180°	4794.0	45.2
0°-180°	10610.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2280	2258	2266	2258	2258	217
15°	2192	2171	2180	2172	2168	618
25°	2019	1996	2005	1987	1985	928
35°	1744	1727	1732	1712	1710	1090
45°	1418	1408	1408	1394	1394	1092
55°	1051	1048	1037	1031	1029	934
65°	621	610	595	591	593	620
75°	283	283	279	277	275	307
85°	66	72	72	72	72	77
90°	2	5	9	11	12	6
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2272.0	2272.0	2272.0	2272.0	2272.0
2.5°	2286.3	2267.6	2272.0	2268.6	2259.2
5°	2279.9	2258.5	2266.0	2258.0	2258.0
7.5°	2264.4	2241.0	2248.5	2240.5	2240.1
10°	2250.1	2226.7	2234.1	2226.1	2224.2
12.5°	2229.3	2206.0	2215.0	2205.4	2205.1
15°	2192.3	2170.9	2180.4	2172.3	2168.4
17.5°	2150.5	2127.1	2138.5	2127.4	2125.8
20°	2118.6	2095.3	2106.7	2090.8	2090.8
22.5°	2080.4	2057.0	2070.0	2049.3	2049.3
25°	2019.1	1995.7	2005.1	1987.2	1985.2
27.5°	1946.2	1923.2	1933.1	1912.7	1912.3
30°	1893.6	1872.2	1883.7	1861.7	1859.8
32.5°	1836.3	1816.4	1824.7	1802.8	1800.8
35°	1744.3	1726.8	1732.3	1712.4	1710.4
37.5°	1647.5	1629.6	1636.0	1618.8	1618.0
40°	1579.0	1567.3	1569.1	1555.0	1551.1
42.5°	1515.3	1502.1	1503.8	1489.8	1489.0
45°	1417.7	1408.0	1407.8	1393.8	1393.8
47.5°	1314.2	1306.8	1304.6	1293.1	1292.7
50°	1242.5	1236.7	1234.5	1224.5	1222.6
52.5°	1167.6	1164.9	1158.1	1149.7	1149.3
55°	1051.4	1047.5	1037.4	1031.4	1029.4
57.5°	925.1	917.3	906.0	897.3	898.8
60°	834.3	826.5	810.4	806.4	806.4
62.5°	746.7	737.4	721.2	715.7	718.8
65°	621.3	609.6	595.4	591.4	593.4
67.5°	507.4	496.8	481.5	481.4	479.9
70°	434.1	428.2	416.2	416.2	416.2
72.5°	368.8	366.0	357.2	357.2	355.6
75°	282.8	282.8	278.8	276.7	274.8
77.5°	211.9	212.6	210.7	208.6	205.1
80°	167.3	171.2	169.3	167.2	165.3
82.5°	125.8	129.7	129.4	125.8	125.4
85°	65.7	71.6	71.7	71.7	71.7
87.5°	18.0	24.7	27.4	27.7	29.4
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)