

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: P564508

Luminaire Tested: **SQ4-PR1-150U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564508
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

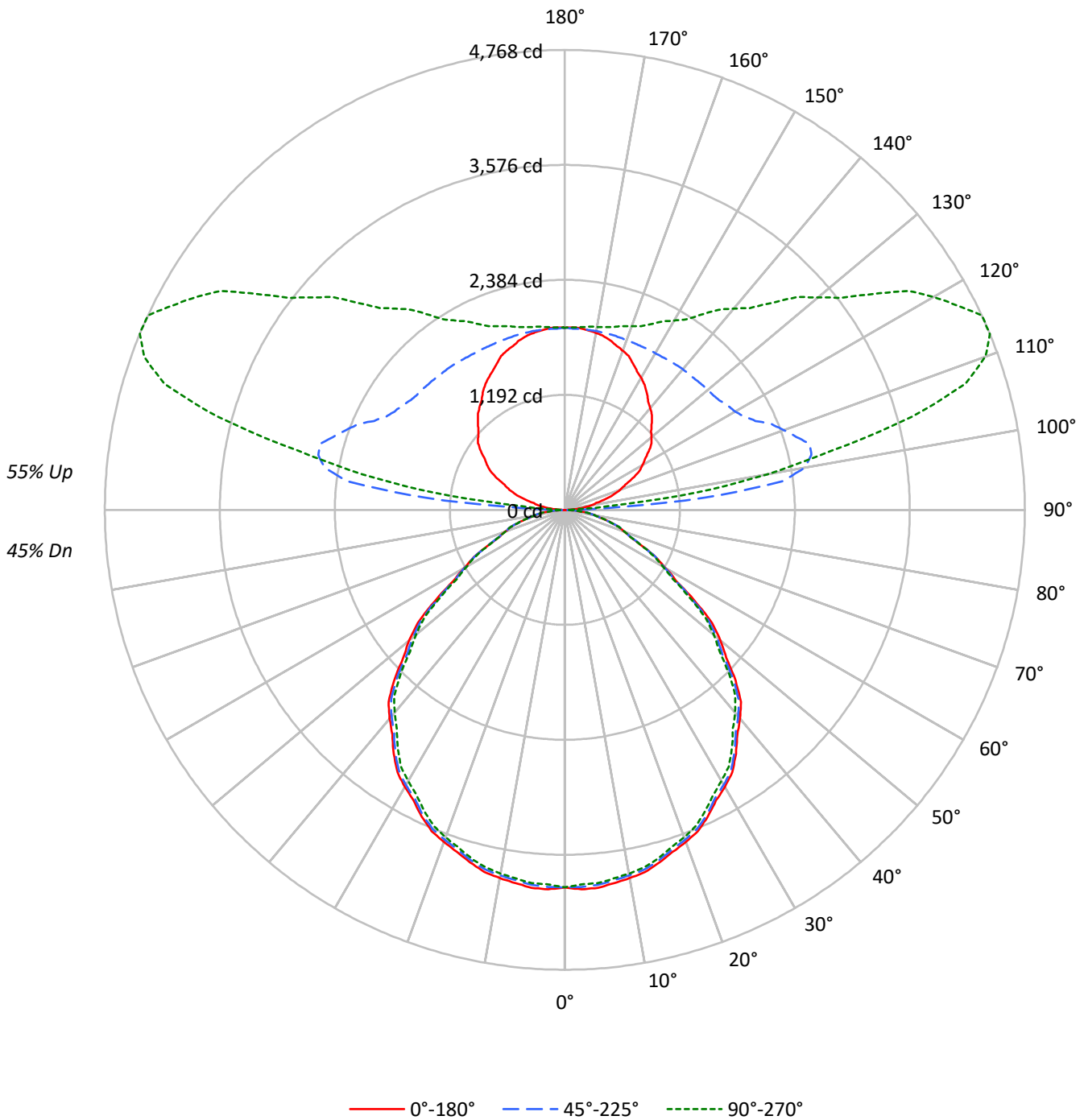
Lumens per Lamp: N/A
Luminaire Lumens: 21956.2 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17982
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11103	11009	10791
65°	9603	9640	9566
70°	8820	8866	8866
75°	8472	8472	8530
80°	7970	8060	7970
85°	6420	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	1.7
10°-20°	1058.8	4.8
20°-30°	1597.0	7.3
30°-40°	1902.9	8.7
40°-50°	1876.1	8.5
50°-60°	1433.8	6.5
60°-70°	887.3	4.0
70°-80°	504.0	2.3
80°-90°	157.2	0.7
90°-100°	877.2	4.0
100°-110°	2371.7	10.8
110°-120°	2493.5	11.4
120°-130°	2025.4	9.2
130°-140°	1588.7	7.2
140°-150°	1219.4	5.6
150°-160°	877.0	4.0
160°-170°	535.7	2.4
170°-180°	180.6	0.8
0°-30°	3025.9	13.8
0°-40°	4928.8	22.4
0°-60°	8238.6	37.5
0°-90°	9787.0	44.6
90°-120°	5742.4	26.2
90°-150°	10575.8	48.2
90°-180°	12169.0	55.4
0°-180°	21956.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3913	3913	3913	3913	3913	
5°	3934	3891	3903	3890	3883	373
15°	3785	3746	3762	3748	3742	1068
25°	3509	3466	3485	3448	3445	1615
35°	3091	3055	3064	3024	3020	1929
45°	2501	2468	2457	2413	2407	1916
55°	1638	1612	1601	1574	1567	1468
65°	880	873	883	876	876	891
75°	475	475	475	479	479	502
85°	121	128	135	135	135	141
90°	4	12	26	28	26	14
95°	136	478	1459	755	449	142
105°	441	681	2631	3881	3722	464
115°	776	949	2182	4224	4768	766
125°	1063	1218	1967	3319	3899	947
135°	1274	1425	1914	2680	3033	984
145°	1481	1592	1888	2294	2468	927
155°	1672	1738	1871	2058	2125	771
165°	1820	1838	1879	1953	1963	513
175°	1890	1888	1881	1906	1902	179
180°	1888	1888	1888	1888	1888	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3913.4	3913.4	3913.4	3913.4	3913.4
2.5°	3937.7	3903.4	3913.4	3904.9	3886.5
5°	3933.6	3890.8	3903.3	3889.7	3883.1
7.5°	3903.3	3861.1	3873.6	3860.1	3856.1
10°	3876.3	3836.8	3849.4	3835.7	3829.1
12.5°	3846.7	3804.5	3819.7	3803.4	3796.8
15°	3785.3	3745.8	3761.7	3748.1	3741.5
17.5°	3717.9	3675.7	3691.6	3675.9	3667.4
20°	3664.0	3624.4	3640.4	3616.7	3613.4
22.5°	3604.7	3565.1	3581.1	3549.4	3548.7
25°	3508.9	3466.1	3485.3	3448.2	3444.9
27.5°	3395.0	3355.4	3371.4	3333.6	3329.6
30°	3316.8	3277.2	3293.2	3252.6	3246.0
32.5°	3227.8	3190.9	3204.2	3163.7	3159.7
35°	3091.0	3054.7	3064.0	3023.5	3020.2
37.5°	2935.2	2902.3	2907.6	2863.0	2859.7
40°	2824.7	2791.7	2794.3	2747.1	2743.8
42.5°	2703.3	2670.4	2667.6	2620.3	2617.0
45°	2501.1	2468.1	2457.3	2413.3	2406.7
47.5°	2270.5	2237.6	2217.3	2181.4	2176.8
50°	2103.3	2070.4	2052.8	2022.2	2012.3
52.5°	1922.7	1889.7	1874.8	1846.9	1837.0
55°	1638.2	1611.8	1601.1	1574.0	1567.4
57.5°	1367.8	1350.0	1346.9	1320.6	1318.0
60°	1203.4	1193.5	1193.2	1169.6	1169.6
62.5°	1063.1	1055.9	1061.1	1045.5	1042.9
65°	879.8	873.2	883.1	876.4	876.4
67.5°	734.8	734.8	740.9	738.2	738.2
70°	653.9	653.9	657.3	657.3	657.3
72.5°	581.1	578.5	587.2	587.1	584.5
75°	475.3	475.3	475.3	478.6	478.6
77.5°	370.1	370.8	373.5	372.7	370.1
80°	300.0	303.3	303.4	300.0	300.0
82.5°	229.9	233.2	233.3	232.5	229.9
85°	121.3	127.9	134.8	134.8	134.8
87.5°	35.9	48.0	59.2	59.6	56.5
90°	4.1	12.0	26.4	28.4	26.4
92.5°	57.7	210.3	414.9	180.1	130.4
95°	136.1	477.8	1458.8	754.9	449.0
97.5°	218.6	548.0	2273.9	1881.8	1382.0
100°	280.4	576.4	2527.4	2635.8	2131.3
102.5°	337.3	615.8	2616.8	3207.6	2830.2
105°	440.9	681.3	2631.1	3881.0	3722.1
107.5°	536.8	756.1	2516.1	4301.1	4354.0
110°	611.5	810.2	2413.7	4413.9	4638.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.2	864.1	2319.4	4391.4	4768.4
115°	776.1	948.9	2182.1	4224.1	4768.4
117.5°	872.0	1034.1	2091.4	3968.5	4585.6
120°	930.5	1089.4	2037.8	3785.2	4414.9
122.5°	985.8	1141.5	2005.3	3588.6	4223.1
125°	1062.6	1217.5	1966.7	3318.8	3898.8
127.5°	1133.3	1285.5	1943.9	3098.6	3608.7
130°	1172.3	1329.2	1934.2	2962.5	3423.4
132.5°	1212.9	1368.3	1924.4	2839.8	3264.1
135°	1273.9	1424.9	1913.9	2679.7	3033.3
137.5°	1335.2	1477.9	1904.9	2549.8	2837.9
140°	1377.5	1510.6	1901.7	2466.2	2722.5
142.5°	1418.1	1543.3	1895.2	2390.7	2615.2
145°	1481.1	1592.4	1887.5	2293.7	2468.5
147.5°	1538.4	1636.9	1878.5	2205.8	2340.1
150°	1580.7	1668.1	1875.3	2158.1	2265.4
152.5°	1619.7	1696.0	1873.6	2113.8	2202.0
155°	1672.1	1737.7	1871.2	2057.6	2125.2
157.5°	1726.5	1772.2	1871.6	2018.5	2063.0
160°	1757.4	1795.2	1873.2	1993.8	2025.6
162.5°	1781.8	1813.2	1874.9	1974.1	1998.0
165°	1820.4	1838.3	1879.3	1952.7	1962.6
167.5°	1846.8	1859.1	1879.7	1934.3	1939.1
170°	1863.1	1869.0	1881.4	1926.1	1926.1
172.5°	1876.1	1877.3	1881.4	1916.3	1914.7
175°	1889.5	1887.5	1881.4	1905.7	1901.7
177.5°	1894.0	1889.2	1881.0	1897.1	1892.3
180°	1887.5	1887.5	1887.5	1887.5	1887.5

(END OF REPORT)