

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: P563164

Luminaire Tested: **SQ4-PC3-150U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563164
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

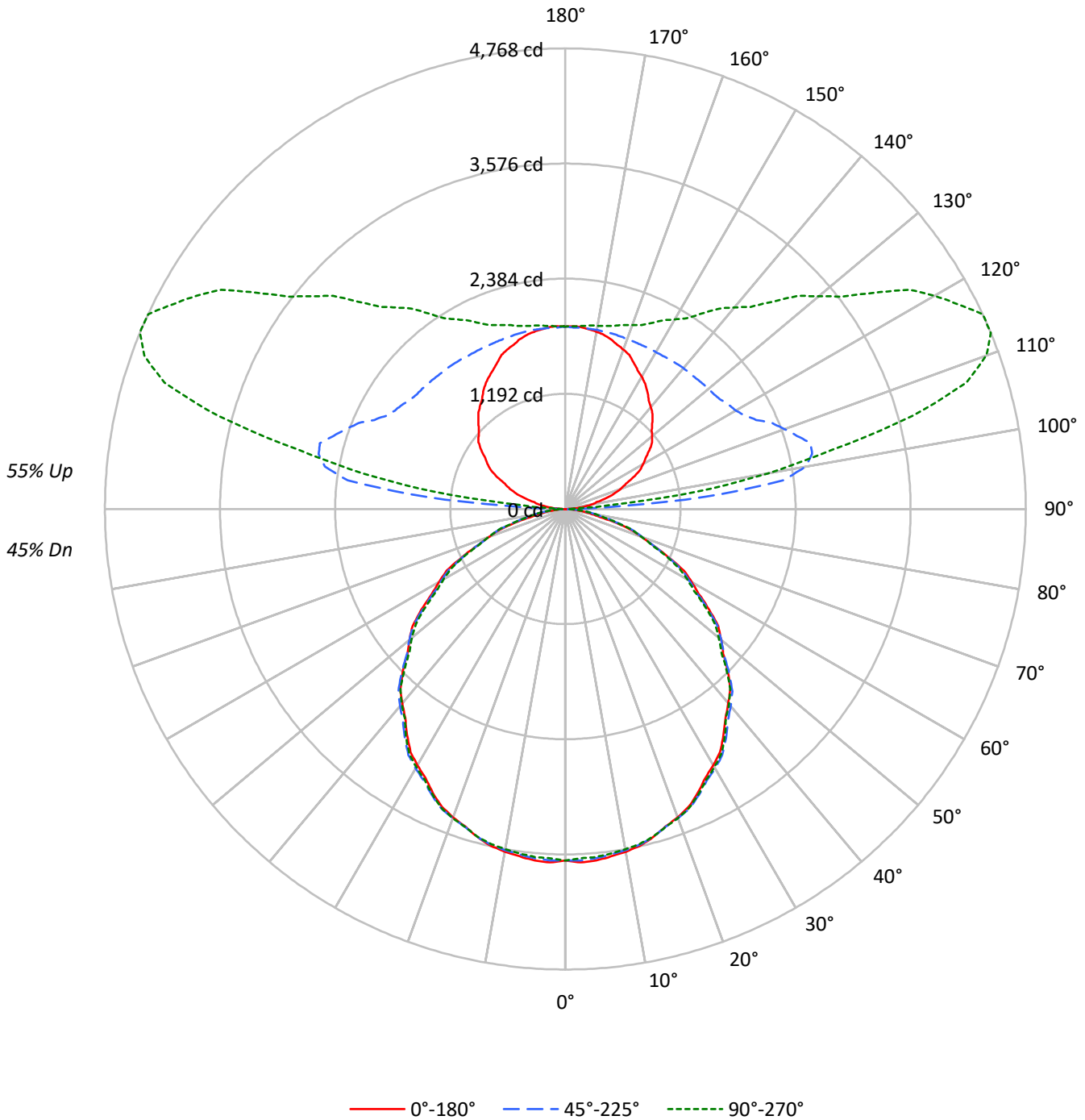
Lumens per Lamp: N/A
Luminaire Lumens: 22108.4 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12510
70°	11274	11366	11320
75°	9072	10033	10094
80°	6448	8506	8597
85°	3927	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.6
10°-20°	988.7	4.5
20°-30°	1497.2	6.8
30°-40°	1795.0	8.1
40°-50°	1830.3	8.3
50°-60°	1597.7	7.2
60°-70°	1143.8	5.2
70°-80°	589.1	2.7
80°-90°	152.9	0.7
90°-100°	877.2	4.0
100°-110°	2371.7	10.7
110°-120°	2493.5	11.3
120°-130°	2025.4	9.2
130°-140°	1588.7	7.2
140°-150°	1219.4	5.5
150°-160°	877.0	4.0
160°-170°	535.7	2.4
170°-180°	180.6	0.8
0°-30°	2830.4	12.8
0°-40°	4625.4	20.9
0°-60°	8053.4	36.4
0°-90°	9939.3	45.0
90°-120°	5742.4	26.0
90°-150°	10575.8	47.8
90°-180°	12169.0	55.0
0°-180°	22108.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3640	3640	3640	3640	3640	
5°	3654	3618	3630	3620	3617	347
15°	3516	3486	3516	3516	3512	991
25°	3246	3223	3270	3260	3260	1494
35°	2855	2848	2899	2879	2879	1786
45°	2380	2373	2397	2366	2360	1832
55°	1820	1797	1797	1770	1770	1623
65°	1180	1153	1156	1146	1146	1167
75°	509	532	563	566	566	550
85°	74	114	135	138	135	101
90°	4	12	26	28	26	12
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°	3640.4	3640.4	3640.4	3640.4	3640.4
2.5°	3662.0	3630.3	3640.4	3632.0	3618.8
5°	3653.9	3617.6	3630.3	3620.1	3616.8
7.5°	3627.6	3591.3	3608.0	3601.2	3597.9
10°	3603.3	3567.1	3586.5	3579.6	3576.4
12.5°	3571.0	3537.3	3559.5	3552.7	3552.1
15°	3515.7	3486.0	3515.7	3515.6	3512.3
17.5°	3446.2	3419.2	3451.0	3452.9	3451.0
20°	3397.7	3368.0	3407.8	3404.5	3407.8
22.5°	3338.4	3314.0	3356.6	3347.9	3351.2
25°	3246.0	3222.9	3269.6	3259.5	3259.5
27.5°	3136.8	3120.3	3171.2	3160.4	3160.4
30°	3064.0	3047.5	3101.1	3087.6	3087.6
32.5°	2983.1	2971.9	3022.9	3006.7	3006.7
35°	2855.0	2848.4	2898.8	2878.6	2878.6
37.5°	2722.9	2716.9	2762.7	2738.2	2730.3
40°	2625.8	2622.5	2662.9	2635.9	2635.9
42.5°	2528.7	2525.4	2560.4	2528.1	2528.1
45°	2379.7	2373.1	2396.6	2366.1	2359.5
47.5°	2217.3	2210.7	2225.4	2192.3	2189.0
50°	2106.7	2100.1	2106.7	2076.3	2073.0
52.5°	1993.5	1981.6	1982.7	1952.3	1951.7
55°	1820.2	1797.1	1796.6	1769.6	1769.6
57.5°	1636.8	1606.5	1609.2	1586.2	1582.9
60°	1510.1	1477.1	1479.8	1459.5	1456.2
62.5°	1386.0	1347.8	1355.7	1332.8	1332.1
65°	1179.8	1153.4	1156.2	1146.1	1146.1
67.5°	981.6	957.2	974.8	966.7	966.1
70°	835.9	819.5	842.7	842.6	839.3
72.5°	701.1	700.5	729.4	729.5	731.4
75°	509.0	532.1	562.9	566.3	566.3
77.5°	339.8	380.6	414.6	415.9	415.3
80°	242.7	288.8	320.2	326.9	323.6
82.5°	164.5	213.3	239.3	246.0	242.7
85°	74.2	113.7	134.8	138.1	134.8
87.5°	22.4	47.7	59.2	59.5	53.8
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)