

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: P564456

Luminaire Tested: **SQ4-PR1-150U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564456
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-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

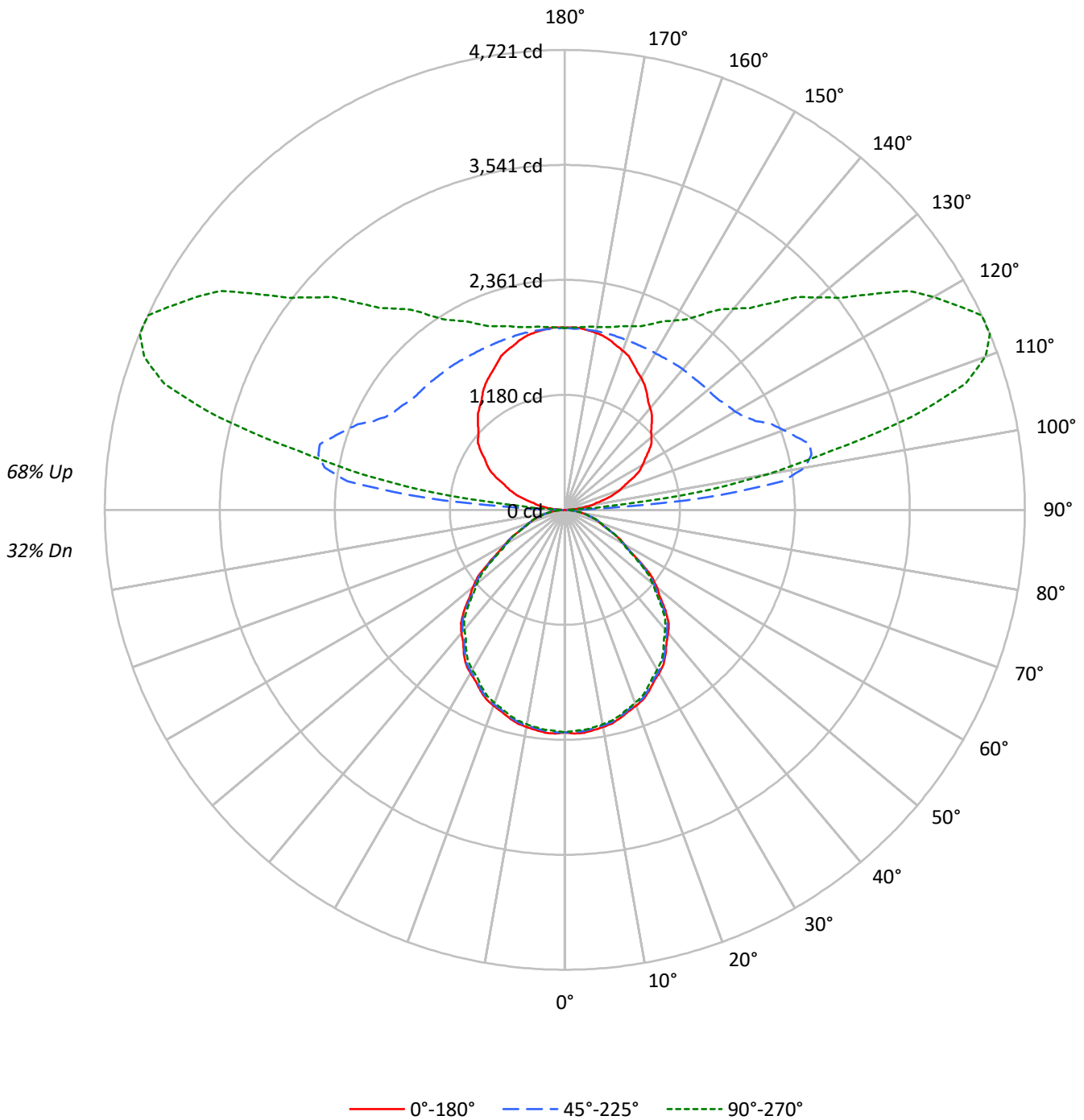
Lumens per Lamp: N/A
Luminaire Lumens: 17764.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32				
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27				
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23				
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20				
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17				
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15				
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13				
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12				
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11				
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10				
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10554	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10502	10435	10357
25°	10428	10358	10238
30°	10316	10243	10096
35°	10164	10075	9931
40°	9932	9825	9647
45°	9527	9361	9167
50°	8814	8602	8433
55°	7693	7519	7361
60°	6482	6428	6301
65°	5607	5628	5585
70°	5150	5177	5177
75°	4946	4946	4982
80°	4654	4705	4654
85°	3753	4166	4166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	1.2
10°-20°	618.2	3.5
20°-30°	932.5	5.2
30°-40°	1111.0	6.3
40°-50°	1095.4	6.2
50°-60°	837.2	4.7
60°-70°	518.1	2.9
70°-80°	294.3	1.7
80°-90°	93.4	0.5
90°-100°	868.4	4.9
100°-110°	2348.1	13.2
110°-120°	2468.6	13.9
120°-130°	2005.2	11.3
130°-140°	1572.9	8.9
140°-150°	1207.2	6.8
150°-160°	868.2	4.9
160°-170°	530.4	3.0
170°-180°	178.8	1.0
0°-30°	1766.8	9.9
0°-40°	2877.8	16.2
0°-60°	4810.4	27.1
0°-90°	5716.1	32.2
90°-120°	5685.1	32.0
90°-150°	10470.5	58.9
90°-180°	12048.0	67.8
0°-180°	17764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2297	2272	2279	2271	2267	218
15°	2210	2187	2196	2188	2185	624
25°	2049	2024	2035	2013	2011	943
35°	1805	1784	1789	1765	1763	1126
45°	1460	1441	1435	1409	1405	1119
55°	956	941	935	919	915	857
65°	514	510	516	512	512	520
75°	278	278	278	280	280	293
85°	71	75	79	79	79	82
90°	4	12	26	28	26	12
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2285.0	2285.0	2285.0	2285.0	2285.0
2.5°	2299.2	2279.1	2285.0	2280.0	2269.2
5°	2296.8	2271.8	2279.1	2271.1	2267.3
7.5°	2279.1	2254.5	2261.8	2253.8	2251.5
10°	2263.3	2240.2	2247.6	2239.6	2235.8
12.5°	2246.0	2221.4	2230.3	2220.7	2216.9
15°	2210.2	2187.1	2196.4	2188.5	2184.6
17.5°	2170.8	2146.2	2155.5	2146.3	2141.3
20°	2139.3	2116.3	2125.6	2111.7	2109.8
22.5°	2104.7	2081.6	2090.9	2072.4	2072.0
25°	2048.8	2023.8	2035.0	2013.3	2011.4
27.5°	1982.3	1959.2	1968.5	1946.4	1944.1
30°	1936.6	1913.5	1922.9	1899.1	1895.3
32.5°	1884.7	1863.1	1870.9	1847.2	1844.9
35°	1804.8	1783.6	1789.0	1765.4	1763.4
37.5°	1713.8	1694.6	1697.7	1671.7	1669.8
40°	1649.3	1630.0	1631.6	1604.0	1602.0
42.5°	1578.4	1559.2	1557.6	1530.0	1528.0
45°	1460.3	1441.1	1434.8	1409.1	1405.2
47.5°	1325.7	1306.5	1294.6	1273.7	1271.0
50°	1228.1	1208.9	1198.6	1180.7	1175.0
52.5°	1122.6	1103.4	1094.7	1078.4	1072.6
55°	956.5	941.1	934.9	919.0	915.2
57.5°	798.7	788.3	786.5	771.1	769.5
60°	702.6	696.8	696.7	682.9	682.9
62.5°	620.7	616.5	619.6	610.5	608.9
65°	513.7	509.8	515.6	511.7	511.7
67.5°	429.1	429.1	432.6	431.0	431.0
70°	381.8	381.8	383.8	383.8	383.8
72.5°	339.3	337.8	342.8	342.8	341.3
75°	277.5	277.5	277.5	279.5	279.5
77.5°	216.1	216.5	218.1	217.6	216.1
80°	175.2	177.1	177.1	175.2	175.2
82.5°	134.2	136.2	136.2	135.8	134.2
85°	70.9	74.7	78.7	78.7	78.7
87.5°	21.3	29.0	36.7	37.1	35.1
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)