

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: P565128

Luminaire Tested: **SQ4-PW1-150U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565128
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

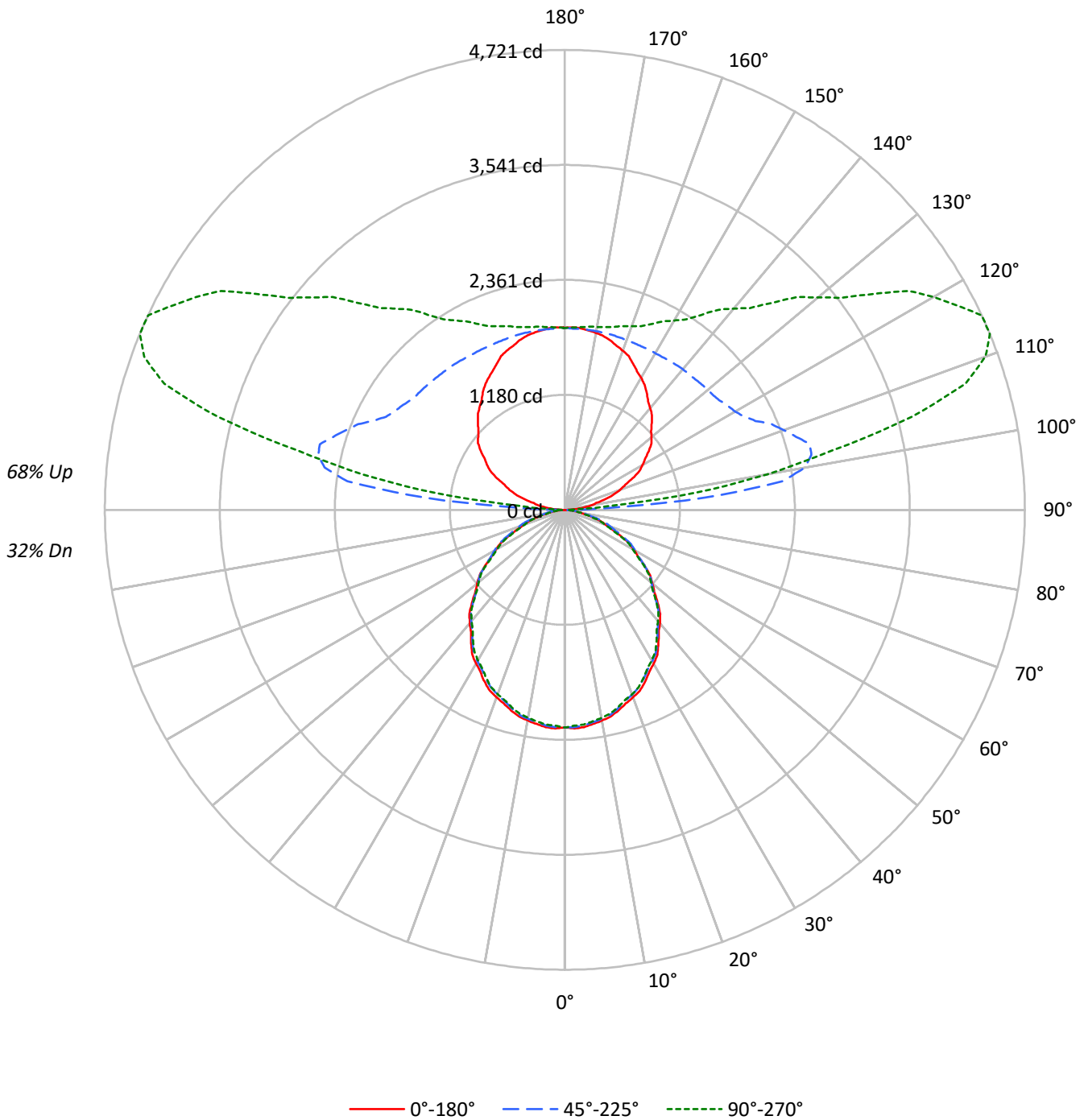
Lumens per Lamp: N/A
Luminaire Lumens: 17735.2 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	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	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10371	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9917	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8348	8291
55°	8025	8025	7899
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5920
75°	5192	5964	5051
80°	4025	5018	4078
85°	2604	3853	3435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.3	1.2
10°-20°	593.9	3.3
20°-30°	880.9	5.0
30°-40°	1030.8	5.8
40°-50°	1026.2	5.8
50°-60°	886.1	5.0
60°-70°	637.9	3.6
70°-80°	334.5	1.9
80°-90°	86.8	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°	1685.1	9.5
0°-40°	2715.9	15.3
0°-60°	4628.2	26.1
0°-90°	5687.3	32.1
90°-120°	5685.1	32.1
90°-150°	10470.5	59.0
90°-180°	12048.0	67.9
0°-180°	17735.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2240	2215	2222	2216	2212	212
15°	2132	2104	2108	2104	2100	601
25°	1948	1916	1913	1901	1907	896
35°	1675	1652	1651	1636	1641	1047
45°	1346	1335	1328	1324	1323	1039
55°	998	996	998	984	982	890
65°	632	651	663	637	616	626
75°	291	318	335	312	283	312
85°	49	65	73	69	65	65
90°	4	12	26	28	26	11
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°	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2246.4	2227.9	2233.8	2228.9	2218.1
5°	2239.7	2214.7	2222.0	2216.0	2212.2
7.5°	2216.9	2193.8	2199.2	2192.8	2190.5
10°	2196.4	2173.3	2178.7	2170.8	2166.9
12.5°	2172.8	2148.2	2153.5	2145.6	2143.3
15°	2131.5	2104.5	2107.9	2103.8	2100.0
17.5°	2083.5	2056.1	2056.7	2050.4	2049.6
20°	2048.8	2020.0	2017.3	2009.5	2013.4
22.5°	2011.0	1980.6	1978.0	1967.1	1972.5
25°	1948.4	1915.7	1913.0	1901.3	1907.1
27.5°	1876.0	1843.7	1843.7	1827.3	1833.5
30°	1822.5	1791.7	1794.9	1775.4	1783.1
32.5°	1765.8	1738.1	1739.8	1720.3	1728.0
35°	1674.9	1651.8	1651.3	1635.6	1641.4
37.5°	1582.0	1561.6	1558.4	1549.3	1550.9
40°	1517.4	1500.1	1493.8	1487.9	1487.9
42.5°	1449.7	1433.9	1427.7	1423.3	1421.8
45°	1346.2	1334.7	1328.5	1324.5	1322.6
47.5°	1243.9	1233.1	1227.7	1224.9	1223.0
50°	1173.0	1165.3	1163.2	1157.2	1155.3
52.5°	1102.2	1097.5	1095.5	1087.9	1086.0
55°	997.8	995.9	997.8	984.0	982.1
57.5°	889.2	892.3	898.6	880.0	875.4
60°	816.8	824.5	832.5	810.7	803.0
62.5°	742.8	755.1	766.4	741.3	730.6
65°	631.8	651.0	663.3	637.2	616.0
67.5°	524.7	548.6	563.3	535.2	511.3
70°	450.7	477.6	494.0	465.8	438.9
72.5°	386.1	416.2	429.4	402.9	375.9
75°	291.3	318.2	334.6	312.3	283.4
77.5°	206.7	232.1	245.6	226.2	202.3
80°	151.5	178.5	188.9	172.8	153.5
82.5°	107.5	129.8	137.0	127.2	114.2
85°	49.2	64.6	72.8	68.8	64.9
87.5°	13.4	25.8	35.1	35.6	36.7
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)