

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: P564432

Luminaire Tested: **SQ4-PR1-150U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564432
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-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

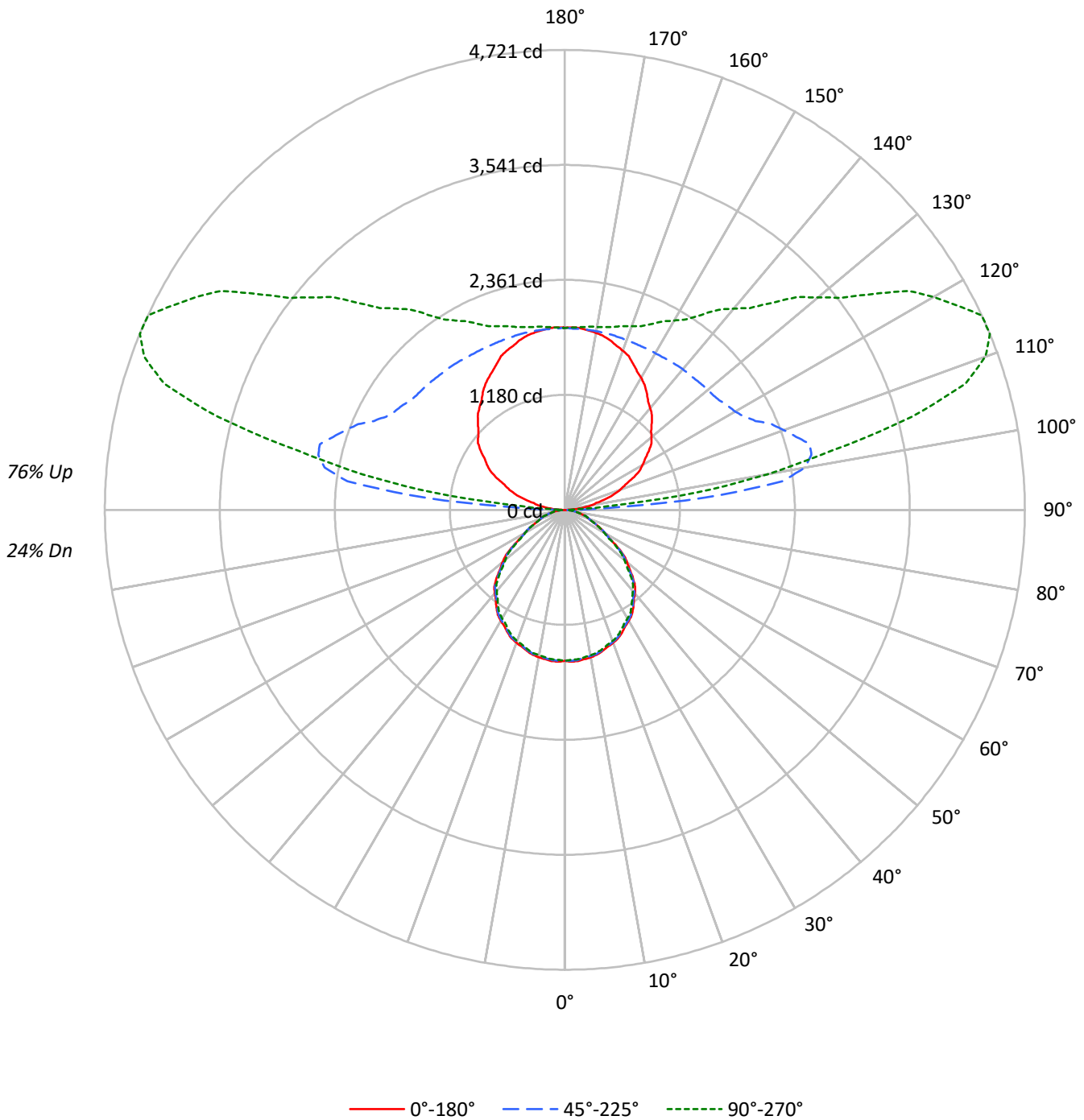
Lumens per Lamp: N/A
Luminaire Lumens: 15927.4 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7152	7152	7152
5°	7216	7160	7123
10°	7193	7143	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7076	7028	6946
30°	6999	6949	6850
35°	6896	6836	6738
40°	6739	6666	6546
45°	6464	6351	6220
50°	5980	5836	5721
55°	5220	5101	4994
60°	4398	4361	4275
65°	3804	3819	3790
70°	3495	3512	3512
75°	3356	3356	3379
80°	3156	3193	3156
85°	2546	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	0.9
10°-20°	419.5	2.6
20°-30°	632.7	4.0
30°-40°	753.8	4.7
40°-50°	743.2	4.7
50°-60°	568.0	3.6
60°-70°	351.5	2.2
70°-80°	199.6	1.3
80°-90°	64.6	0.4
90°-100°	868.4	5.5
100°-110°	2348.1	14.7
110°-120°	2468.6	15.5
120°-130°	2005.2	12.6
130°-140°	1572.9	9.9
140°-150°	1207.2	7.6
150°-160°	868.2	5.5
160°-170°	530.4	3.3
170°-180°	178.8	1.1
0°-30°	1198.7	7.5
0°-40°	1952.6	12.3
0°-60°	3263.8	20.5
0°-90°	3879.5	24.4
90°-120°	5685.1	35.7
90°-150°	10470.5	65.7
90°-180°	12048.0	75.6
0°-180°	15927.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1558	1541	1546	1541	1538	148
15°	1500	1484	1490	1485	1482	423
25°	1390	1373	1381	1366	1365	640
35°	1224	1210	1214	1198	1196	764
45°	991	978	974	956	953	759
55°	649	638	634	624	621	582
65°	348	346	350	347	347	353
75°	188	188	188	190	190	199
85°	48	51	53	53	53	56
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°	1550.3	1550.3	1550.3	1550.3	1550.3
2.5°	1559.9	1546.4	1550.3	1546.9	1539.6
5°	1558.3	1541.4	1546.3	1540.9	1538.3
7.5°	1546.3	1529.6	1534.6	1529.2	1527.6
10°	1535.6	1520.0	1524.9	1519.5	1516.9
12.5°	1523.9	1507.2	1513.2	1506.7	1504.1
15°	1499.6	1483.9	1490.2	1484.8	1482.2
17.5°	1472.9	1456.2	1462.5	1456.2	1452.8
20°	1451.5	1435.8	1442.2	1432.8	1431.5
22.5°	1428.0	1412.3	1418.7	1406.1	1405.8
25°	1390.1	1373.1	1380.7	1366.0	1364.7
27.5°	1344.9	1329.3	1335.6	1320.6	1319.0
30°	1314.0	1298.3	1304.6	1288.5	1285.9
32.5°	1278.7	1264.1	1269.4	1253.3	1251.7
35°	1224.5	1210.1	1213.8	1197.8	1196.5
37.5°	1162.8	1149.7	1151.9	1134.2	1132.9
40°	1119.0	1105.9	1107.0	1088.3	1087.0
42.5°	1070.9	1057.9	1056.8	1038.1	1036.7
45°	990.8	977.8	973.5	956.0	953.4
47.5°	899.5	886.4	878.4	864.2	862.4
50°	833.2	820.2	813.2	801.1	797.2
52.5°	761.7	748.6	742.7	731.7	727.8
55°	649.0	638.5	634.3	623.5	620.9
57.5°	541.9	534.8	533.6	523.2	522.1
60°	476.7	472.8	472.7	463.4	463.4
62.5°	421.2	418.3	420.4	414.2	413.2
65°	348.5	345.9	349.9	347.2	347.2
67.5°	291.1	291.1	293.5	292.4	292.4
70°	259.1	259.1	260.4	260.4	260.4
72.5°	230.2	229.2	232.6	232.6	231.5
75°	188.3	188.3	188.3	189.6	189.6
77.5°	146.6	146.9	148.0	147.7	146.6
80°	118.8	120.1	120.2	118.8	118.8
82.5°	91.1	92.4	92.4	92.1	91.1
85°	48.1	50.7	53.4	53.4	53.4
87.5°	14.7	20.4	26.6	27.0	25.5
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)