

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: P564428

Luminaire Tested: **SQ4-PR1-150U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564428
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

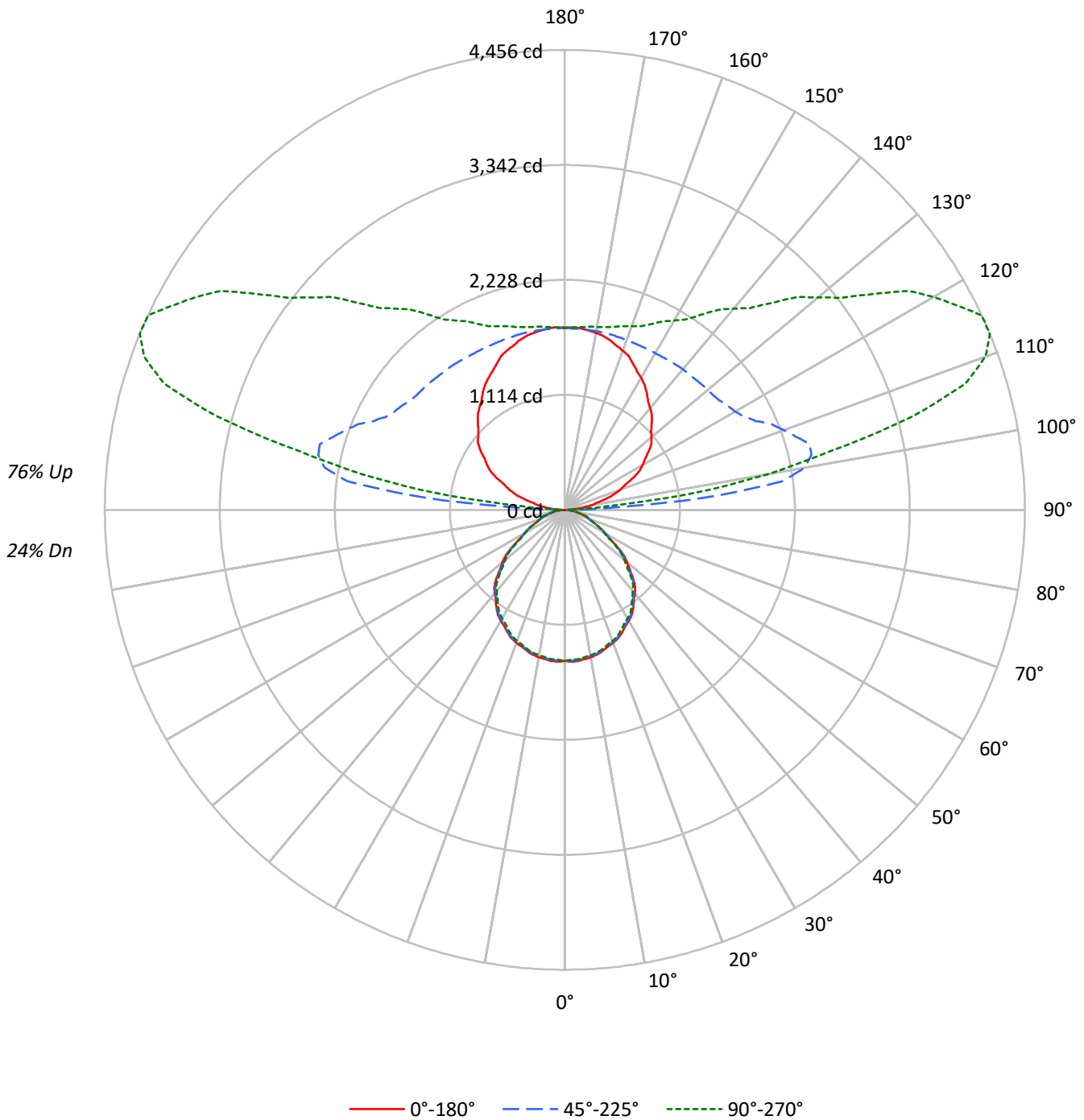
Lumens per Lamp: N/A
Luminaire Lumens: 15033.8 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	6750	6750	6750
5°	6811	6759	6724
10°	6790	6743	6707
15°	6760	6718	6682
20°	6726	6682	6633
25°	6679	6634	6556
30°	6606	6559	6466
35°	6509	6452	6360
40°	6360	6292	6179
45°	6101	5994	5871
50°	5644	5509	5400
55°	4927	4815	4714
60°	4152	4117	4036
65°	3591	3604	3577
70°	3298	3315	3315
75°	3167	3167	3190
80°	2981	3013	2981
85°	2403	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	0.9
10°-20°	395.9	2.6
20°-30°	597.2	4.0
30°-40°	711.5	4.7
40°-50°	701.5	4.7
50°-60°	536.1	3.6
60°-70°	331.8	2.2
70°-80°	188.4	1.3
80°-90°	61.0	0.4
90°-100°	819.7	5.5
100°-110°	2216.3	14.7
110°-120°	2330.1	15.5
120°-130°	1892.7	12.6
130°-140°	1484.7	9.9
140°-150°	1139.5	7.6
150°-160°	819.5	5.5
160°-170°	500.6	3.3
170°-180°	168.8	1.1
0°-30°	1131.5	7.5
0°-40°	1843.0	12.3
0°-60°	3080.6	20.5
0°-90°	3661.9	24.4
90°-120°	5366.2	35.7
90°-150°	9883.0	65.7
90°-180°	11372.0	75.6
0°-180°	15033.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1471	1455	1460	1454	1452	140
15°	1415	1401	1407	1402	1399	399
25°	1312	1296	1303	1289	1288	604
35°	1156	1142	1146	1131	1129	721
45°	935	923	919	902	900	716
55°	613	603	599	589	586	549
65°	329	326	330	328	328	333
75°	178	178	178	179	179	188
85°	45	48	50	50	50	53
90°	4	11	25	26	25	10
95°	127	446	1363	706	420	133
105°	412	637	2459	3627	3478	434
115°	725	887	2039	3947	4456	716
125°	993	1138	1838	3101	3643	885
135°	1190	1332	1788	2504	2835	920
145°	1384	1488	1764	2143	2307	866
155°	1563	1624	1749	1923	1986	721
165°	1701	1718	1756	1825	1834	479
175°	1766	1764	1758	1781	1777	168
180°	1764	1764	1764	1764	1764	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.3	1463.3	1463.3	1463.3	1463.3
2.5°	1472.4	1459.6	1463.3	1460.2	1453.2
5°	1470.9	1454.9	1459.6	1454.5	1452.0
7.5°	1459.6	1443.8	1448.5	1443.4	1441.9
10°	1449.5	1434.7	1439.4	1434.3	1431.8
12.5°	1438.4	1422.6	1428.3	1422.2	1419.7
15°	1415.4	1400.6	1406.6	1401.5	1399.1
17.5°	1390.2	1374.5	1380.4	1374.5	1371.3
20°	1370.1	1355.3	1361.2	1352.4	1351.2
22.5°	1347.9	1333.1	1339.1	1327.2	1327.0
25°	1312.1	1296.1	1303.3	1289.4	1288.1
27.5°	1269.5	1254.7	1260.7	1246.5	1245.0
30°	1240.2	1225.5	1231.4	1216.2	1213.8
32.5°	1207.0	1193.2	1198.1	1183.0	1181.5
35°	1155.8	1142.2	1145.7	1130.6	1129.3
37.5°	1097.6	1085.2	1087.2	1070.6	1069.3
40°	1056.2	1043.9	1044.9	1027.2	1026.0
42.5°	1010.8	998.5	997.5	979.8	978.6
45°	935.2	922.9	918.8	902.4	899.9
47.5°	849.0	836.7	829.1	815.7	814.0
50°	786.5	774.2	767.6	756.2	752.5
52.5°	718.9	706.6	701.0	690.6	686.9
55°	612.6	602.7	598.7	588.6	586.1
57.5°	511.5	504.8	503.7	493.8	492.8
60°	450.0	446.3	446.2	437.4	437.4
62.5°	397.5	394.8	396.8	391.0	390.0
65°	329.0	326.5	330.2	327.7	327.7
67.5°	274.8	274.8	277.0	276.0	276.0
70°	244.5	244.5	245.8	245.8	245.8
72.5°	217.3	216.3	219.6	219.5	218.6
75°	177.7	177.7	177.7	179.0	179.0
77.5°	138.4	138.6	139.7	139.4	138.4
80°	112.2	113.4	113.4	112.2	112.2
82.5°	86.0	87.2	87.2	86.9	86.0
85°	45.4	47.8	50.4	50.4	50.4
87.5°	13.9	19.3	25.1	25.5	24.1
90°	3.8	11.2	24.7	26.5	24.7
92.5°	53.9	196.5	387.7	168.3	121.9
95°	127.2	446.5	1363.2	705.5	419.6
97.5°	204.3	512.1	2124.9	1758.5	1291.4
100°	262.0	538.6	2361.9	2463.2	1991.6
102.5°	315.2	575.4	2445.4	2997.5	2644.8
105°	412.0	636.6	2458.7	3626.8	3478.3
107.5°	501.6	706.6	2351.2	4019.3	4068.7
110°	571.5	757.1	2255.5	4124.7	4334.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	633.8	807.5	2167.5	4103.7	4456.0
115°	725.3	886.8	2039.1	3947.4	4456.0
117.5°	814.9	966.4	1954.4	3708.6	4285.2
120°	869.6	1018.1	1904.3	3537.2	4125.7
122.5°	921.2	1066.7	1873.9	3353.5	3946.4
125°	993.0	1137.8	1837.9	3101.4	3643.4
127.5°	1059.0	1201.2	1816.6	2895.6	3372.3
130°	1095.5	1242.2	1807.5	2768.5	3199.2
132.5°	1133.5	1278.6	1798.4	2653.8	3050.3
135°	1190.4	1331.5	1788.5	2504.2	2834.6
137.5°	1247.8	1381.1	1780.1	2382.8	2652.0
140°	1287.3	1411.6	1777.1	2304.7	2544.1
142.5°	1325.2	1442.2	1771.0	2234.1	2443.9
145°	1384.1	1488.0	1763.8	2143.4	2306.8
147.5°	1437.6	1529.7	1755.5	2061.3	2186.8
150°	1477.1	1558.8	1752.4	2016.7	2116.9
152.5°	1513.6	1584.9	1750.9	1975.3	2057.7
155°	1562.6	1623.8	1748.6	1922.8	1985.9
157.5°	1613.4	1656.1	1749.0	1886.3	1927.8
160°	1642.3	1677.6	1750.5	1863.2	1892.9
162.5°	1665.1	1694.4	1752.0	1844.8	1867.1
165°	1701.2	1717.9	1756.2	1824.8	1834.1
167.5°	1725.8	1737.3	1756.6	1807.6	1812.0
170°	1741.0	1746.6	1758.1	1799.9	1799.9
172.5°	1753.2	1754.3	1758.1	1790.7	1789.2
175°	1765.7	1763.9	1758.1	1780.8	1777.1
177.5°	1769.9	1765.4	1757.7	1772.8	1768.4
180°	1763.8	1763.8	1763.8	1763.8	1763.8

(END OF REPORT)