

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: P562494

Luminaire Tested: **SQ4-PW1-150U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562494
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

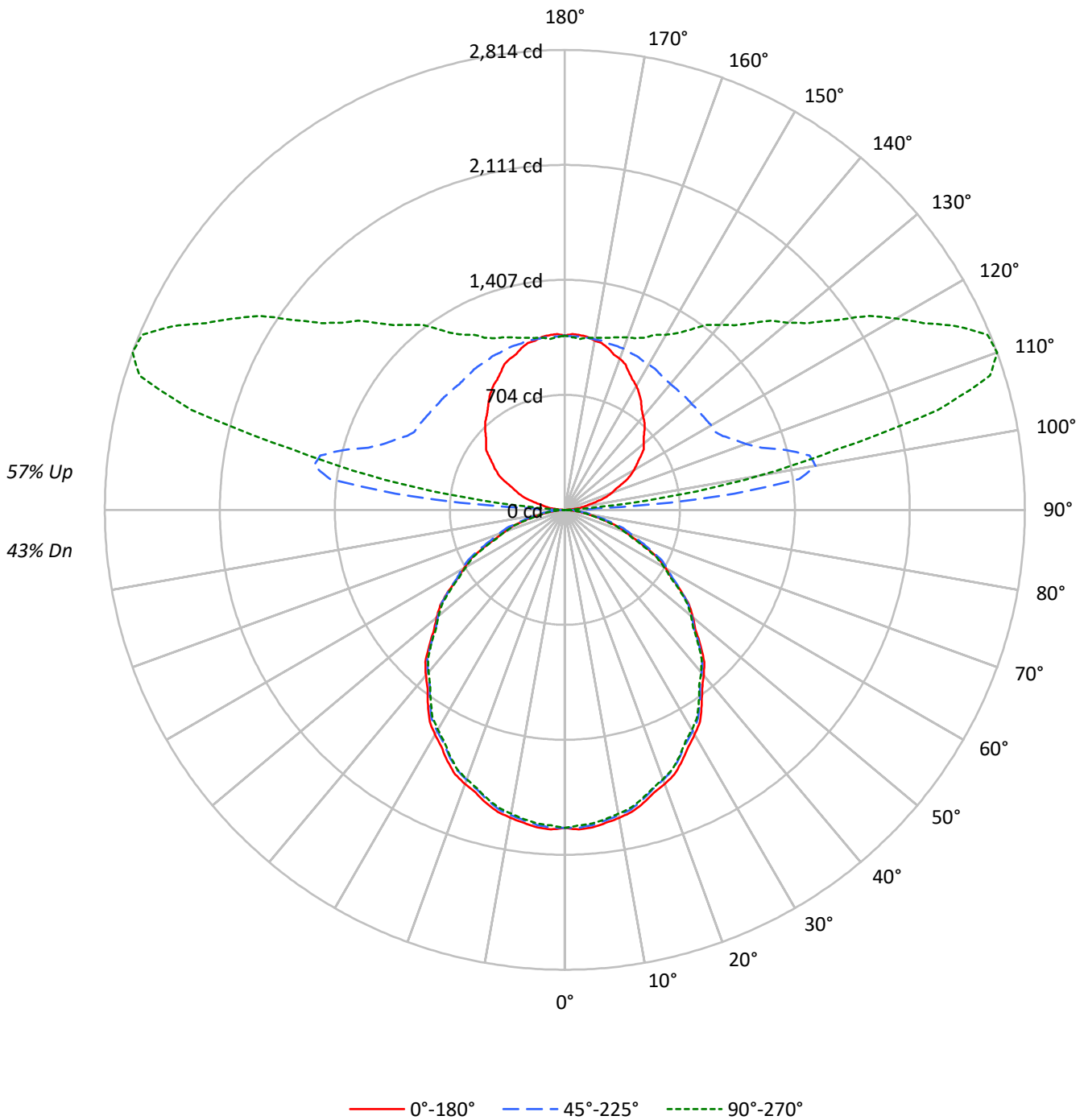
Lumens per Lamp: N/A
Luminaire Lumens: 11570.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	49	47	45	39	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17956	17956	17956
5°	18072	17929	17850
10°	17928	17783	17687
15°	17737	17542	17476
20°	17526	17257	17222
25°	17282	16967	16915
30°	16916	16660	16550
35°	16435	16203	16107
40°	15922	15675	15613
45°	15304	15102	15035
50°	14669	14546	14447
55°	13985	13985	13763
60°	13131	13384	12909
65°	12016	12616	11717
70°	10593	11610	10315
75°	9047	10391	8801
80°	7013	8745	7104
85°	4541	6711	5992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.6
10°-20°	517.4	4.5
20°-30°	767.5	6.6
30°-40°	898.0	7.8
40°-50°	894.0	7.7
50°-60°	772.0	6.7
60°-70°	555.7	4.8
70°-80°	291.4	2.5
80°-90°	72.3	0.6
90°-100°	485.5	4.2
100°-110°	1381.5	11.9
110°-120°	1323.6	11.4
120°-130°	1047.6	9.1
130°-140°	840.8	7.3
140°-150°	658.3	5.7
150°-160°	481.7	4.2
160°-170°	298.3	2.6
170°-180°	101.2	0.9
0°-30°	1468.2	12.7
0°-40°	2366.2	20.5
0°-60°	4032.2	34.9
0°-90°	4951.6	42.8
90°-120°	3190.6	27.6
90°-150°	5737.2	49.6
90°-180°	6618.0	57.2
0°-180°	11570.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1951	1930	1936	1931	1927	185
15°	1857	1834	1836	1833	1830	523
25°	1698	1669	1667	1656	1662	781
35°	1459	1439	1439	1425	1430	912
45°	1173	1163	1157	1154	1152	905
55°	869	868	869	857	856	776
65°	550	567	578	555	537	545
75°	254	277	292	272	247	272
85°	43	56	63	60	57	57
90°	0	0	0	0	0	4
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.2	1946.2	1946.2	1946.2	1946.2
2.5°	1957.2	1941.1	1946.2	1941.9	1932.5
5°	1951.3	1929.5	1935.9	1930.7	1927.3
7.5°	1931.4	1911.3	1916.0	1910.5	1908.5
10°	1913.6	1893.5	1898.2	1891.2	1887.9
12.5°	1893.0	1871.6	1876.2	1869.3	1867.3
15°	1857.0	1833.6	1836.5	1832.9	1829.6
17.5°	1815.2	1791.4	1791.9	1786.4	1785.7
20°	1785.0	1759.9	1757.6	1750.8	1754.1
22.5°	1752.1	1725.6	1723.3	1713.8	1718.5
25°	1697.6	1669.1	1666.7	1656.5	1661.6
27.5°	1634.5	1606.3	1606.3	1592.1	1597.4
30°	1587.8	1561.0	1563.8	1546.8	1553.5
32.5°	1538.4	1514.3	1515.8	1498.8	1505.5
35°	1459.2	1439.1	1438.6	1425.0	1430.1
37.5°	1378.3	1360.5	1357.7	1349.8	1351.2
40°	1322.0	1307.0	1301.5	1296.3	1296.3
42.5°	1263.1	1249.3	1243.9	1240.0	1238.7
45°	1172.9	1162.8	1157.4	1154.0	1152.3
47.5°	1083.7	1074.3	1069.6	1067.2	1065.5
50°	1022.0	1015.3	1013.4	1008.2	1006.5
52.5°	960.2	956.2	954.4	947.9	946.2
55°	869.4	867.7	869.4	857.3	855.6
57.5°	774.7	777.4	782.9	766.7	762.7
60°	711.6	718.3	725.3	706.3	699.6
62.5°	647.1	657.9	667.7	645.9	636.5
65°	550.4	567.2	577.9	555.1	536.7
67.5°	457.1	477.9	490.7	466.3	445.5
70°	392.7	416.1	430.4	405.9	382.4
72.5°	336.4	362.6	374.1	351.0	327.5
75°	253.8	277.2	291.5	272.1	246.9
77.5°	180.0	202.2	214.0	197.1	176.3
80°	132.0	155.5	164.6	150.5	133.7
82.5°	93.6	113.1	119.3	110.9	99.5
85°	42.9	56.3	63.4	59.9	56.6
87.5°	11.0	20.4	26.1	26.1	27.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)