

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: P565147

Luminaire Tested: **SQ4-PW1-150U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565147
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-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

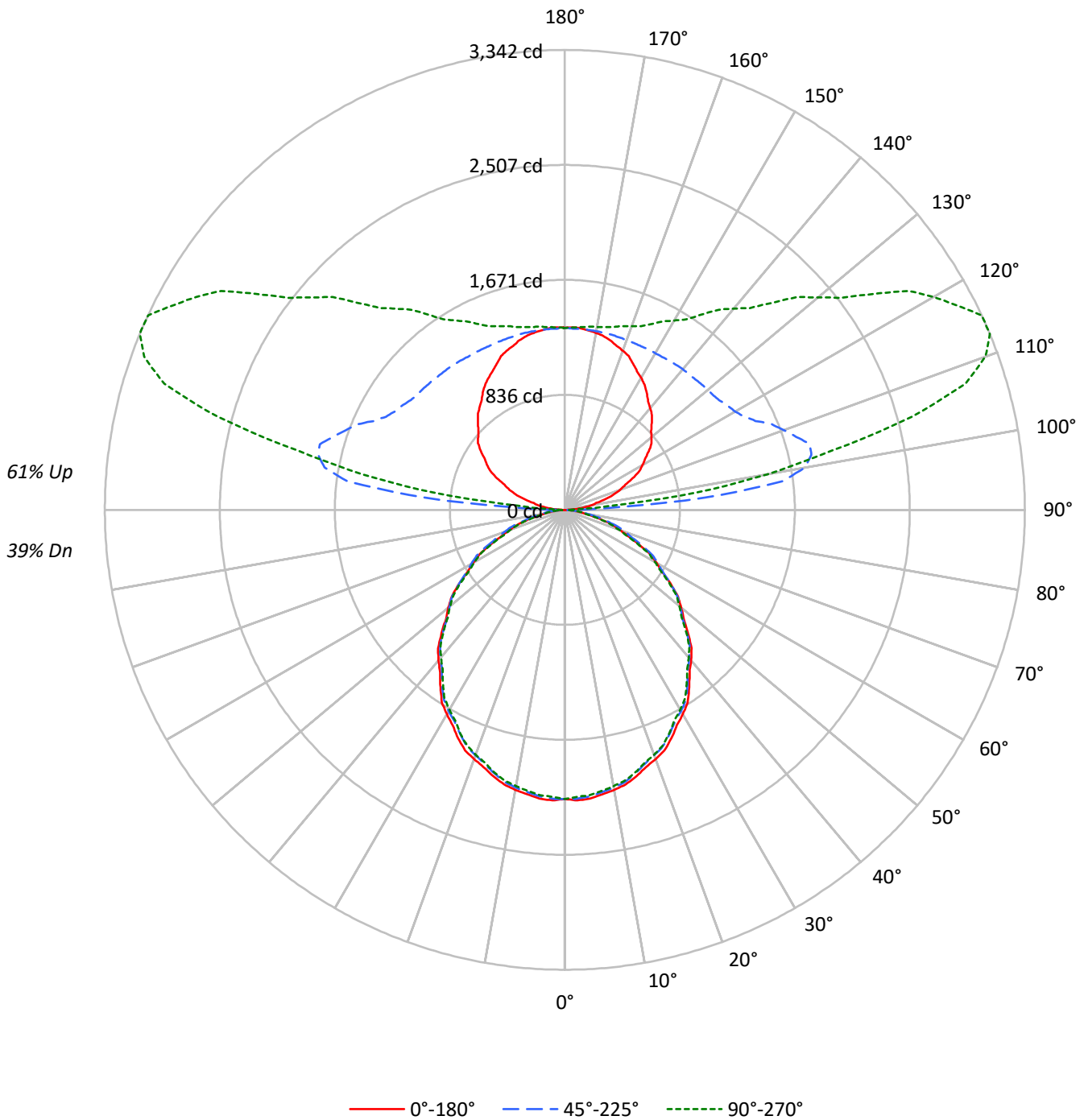
Lumens per Lamp: N/A
Luminaire Lumens: 13877.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	41	38	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	27	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	14
8	52	40	33	27	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12924	12924	12924
5°	13007	12905	12847
10°	12904	12799	12730
15°	12767	12625	12578
20°	12614	12420	12396
25°	12438	12212	12175
30°	12176	11991	11912
35°	11829	11663	11593
40°	11460	11282	11237
45°	11015	10870	10821
50°	10557	10469	10399
55°	10065	10065	9906
60°	9451	9633	9291
65°	8649	9080	8433
70°	7623	8357	7424
75°	6512	7479	6336
80°	5048	6294	5115
85°	3268	4834	4312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.4
10°-20°	558.6	4.0
20°-30°	828.6	6.0
30°-40°	969.5	7.0
40°-50°	965.2	7.0
50°-60°	833.5	6.0
60°-70°	600.0	4.3
70°-80°	314.6	2.3
80°-90°	80.8	0.6
90°-100°	614.8	4.4
100°-110°	1662.2	12.0
110°-120°	1747.6	12.6
120°-130°	1419.5	10.2
130°-140°	1113.5	8.0
140°-150°	854.6	6.2
150°-160°	614.6	4.4
160°-170°	375.5	2.7
170°-180°	126.6	0.9
0°-30°	1585.1	11.4
0°-40°	2554.6	18.4
0°-60°	4353.3	31.4
0°-90°	5348.7	38.5
90°-120°	4024.6	29.0
90°-150°	7412.3	53.4
90°-180°	8529.0	61.5
0°-180°	13877.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2107	2083	2090	2084	2081	200
15°	2005	1980	1983	1979	1975	565
25°	1833	1802	1799	1788	1794	843
35°	1575	1554	1553	1538	1544	985
45°	1266	1255	1250	1246	1244	977
55°	939	937	939	926	924	837
65°	594	612	624	599	579	589
75°	274	299	315	294	267	294
85°	46	61	68	65	61	61
90°	3	8	18	20	18	8
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.2	2101.2	2101.2	2101.2	2101.2
2.5°	2113.0	2095.6	2101.2	2096.5	2086.4
5°	2106.7	2083.2	2090.1	2084.4	2080.8
7.5°	2085.2	2063.5	2068.6	2062.6	2060.4
10°	2066.0	2044.3	2049.3	2041.8	2038.2
12.5°	2043.8	2020.6	2025.6	2018.2	2016.0
15°	2004.9	1979.6	1982.7	1978.9	1975.3
17.5°	1959.7	1934.0	1934.6	1928.6	1927.9
20°	1927.1	1900.0	1897.5	1890.2	1893.8
22.5°	1891.6	1863.0	1860.5	1850.3	1855.3
25°	1832.7	1802.0	1799.4	1788.4	1793.9
27.5°	1764.6	1734.2	1734.2	1718.8	1724.6
30°	1714.3	1685.3	1688.3	1670.0	1677.2
32.5°	1660.9	1634.9	1636.5	1618.2	1625.4
35°	1575.4	1553.7	1553.2	1538.5	1543.9
37.5°	1488.0	1468.8	1465.8	1457.3	1458.8
40°	1427.3	1411.0	1405.1	1399.5	1399.5
42.5°	1363.6	1348.8	1342.9	1338.8	1337.3
45°	1266.3	1255.4	1249.6	1245.8	1244.0
47.5°	1170.0	1159.9	1154.8	1152.2	1150.4
50°	1103.3	1096.1	1094.1	1088.5	1086.7
52.5°	1036.7	1032.4	1030.4	1023.3	1021.5
55°	938.6	936.8	938.6	925.6	923.8
57.5°	836.4	839.3	845.3	827.8	823.4
60°	768.3	775.5	783.1	762.5	755.3
62.5°	698.7	710.2	720.9	697.3	687.2
65°	594.3	612.4	623.9	599.4	579.4
67.5°	493.5	516.0	529.8	503.4	481.0
70°	423.9	449.3	464.7	438.2	412.8
72.5°	363.2	391.5	403.9	378.9	353.6
75°	274.0	299.3	314.7	293.7	266.6
77.5°	194.4	218.3	231.0	212.8	190.3
80°	142.5	167.9	177.7	162.5	144.4
82.5°	101.1	122.1	128.8	119.7	107.4
85°	46.3	60.8	68.5	64.7	61.1
87.5°	12.4	23.7	31.8	32.2	33.3
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)