

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: P562497

Luminaire Tested: **SQ4-PW1-150U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562497
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

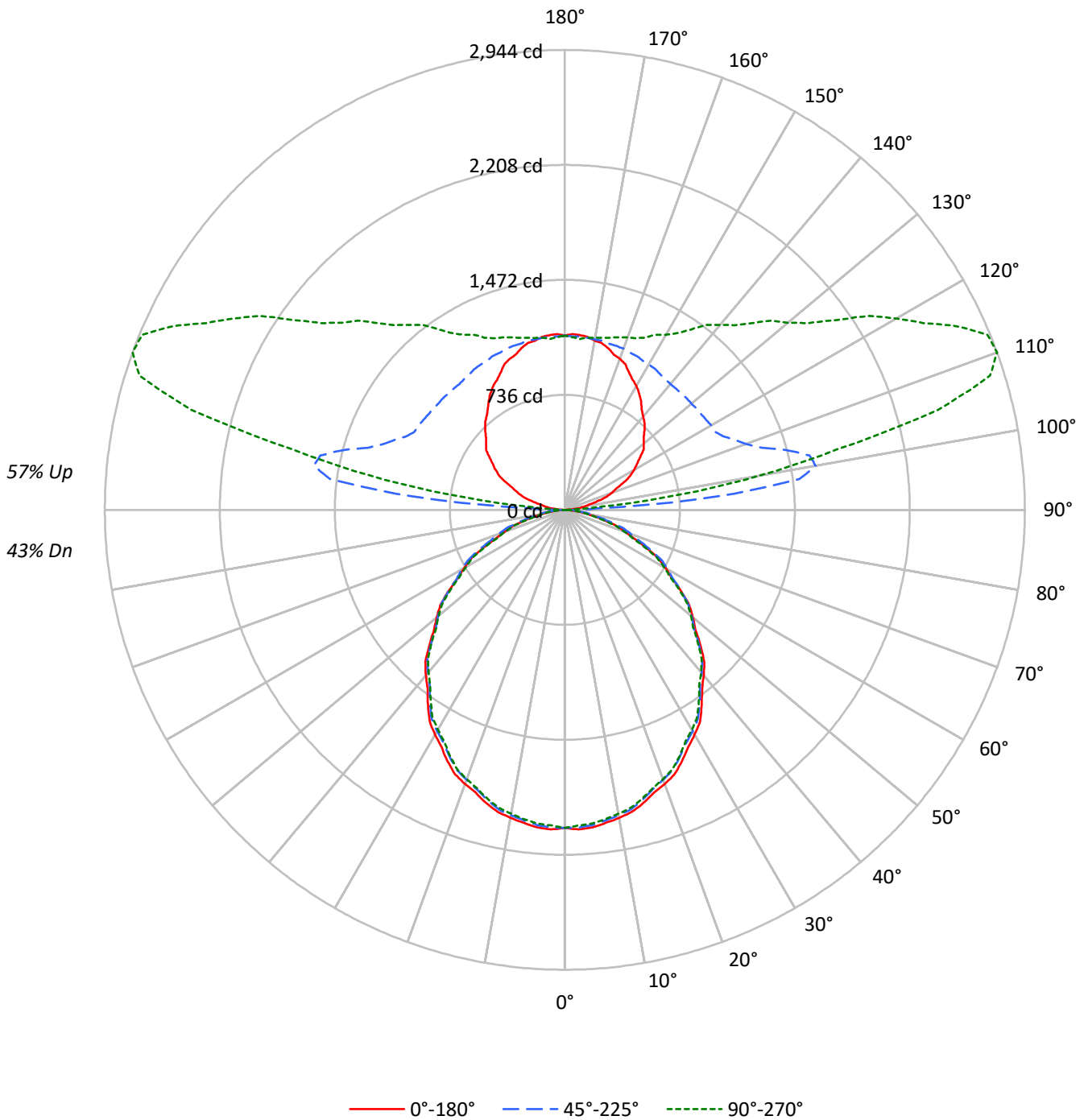
Lumens per Lamp: N/A
Luminaire Lumens: 12104.3 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.8
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°	18785	18785	18785
5°	18906	18757	18674
10°	18756	18604	18504
15°	18557	18351	18283
20°	18335	18053	18018
25°	18079	17750	17696
30°	17697	17429	17315
35°	17194	16952	16851
40°	16658	16399	16334
45°	16010	15800	15729
50°	15347	15217	15114
55°	14630	14630	14398
60°	13738	14002	13505
65°	12570	13197	12258
70°	11082	12147	10790
75°	9464	10872	9208
80°	7337	9149	7433
85°	4742	7029	6267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.6
10°-20°	541.3	4.5
20°-30°	802.9	6.6
30°-40°	939.5	7.8
40°-50°	935.3	7.7
50°-60°	807.7	6.7
60°-70°	581.4	4.8
70°-80°	304.9	2.5
80°-90°	75.6	0.6
90°-100°	507.9	4.2
100°-110°	1445.2	11.9
110°-120°	1384.7	11.4
120°-130°	1095.9	9.1
130°-140°	879.7	7.3
140°-150°	688.7	5.7
150°-160°	503.9	4.2
160°-170°	312.1	2.6
170°-180°	105.9	0.9
0°-30°	1535.9	12.7
0°-40°	2475.4	20.5
0°-60°	4218.4	34.9
0°-90°	5180.3	42.8
90°-120°	3337.9	27.6
90°-150°	6002.1	49.6
90°-180°	6924.0	57.2
0°-180°	12104.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2041	2019	2025	2020	2016	193
15°	1943	1918	1921	1918	1914	548
25°	1776	1746	1744	1733	1738	817
35°	1527	1506	1505	1491	1496	954
45°	1227	1216	1211	1207	1206	947
55°	910	908	910	897	895	811
65°	576	593	604	581	562	571
75°	266	290	305	285	258	285
85°	45	59	66	63	59	59
90°	0	0	0	0	0	4
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	2047.5	2030.7	2036.0	2031.5	2021.7
5°	2041.4	2018.6	2025.3	2019.8	2016.3
7.5°	2020.6	1999.6	2004.5	1998.7	1996.6
10°	2002.0	1980.9	1985.8	1978.6	1975.1
12.5°	1980.4	1958.0	1962.9	1955.6	1953.5
15°	1942.8	1918.2	1921.2	1917.6	1914.1
17.5°	1899.0	1874.1	1874.6	1868.8	1868.1
20°	1867.4	1841.1	1838.7	1831.6	1835.1
22.5°	1833.0	1805.3	1802.8	1792.9	1797.8
25°	1775.9	1746.1	1743.6	1733.0	1738.3
27.5°	1709.9	1680.5	1680.5	1665.6	1671.2
30°	1661.1	1633.1	1636.0	1618.2	1625.3
32.5°	1609.5	1584.2	1585.8	1568.0	1575.0
35°	1526.6	1505.5	1505.1	1490.8	1496.1
37.5°	1441.9	1423.3	1420.4	1412.2	1413.6
40°	1383.1	1367.3	1361.6	1356.2	1356.2
42.5°	1321.4	1307.0	1301.3	1297.3	1295.9
45°	1227.0	1216.5	1210.9	1207.2	1205.5
47.5°	1133.7	1123.9	1119.0	1116.5	1114.7
50°	1069.2	1062.1	1060.2	1054.8	1053.0
52.5°	1004.6	1000.4	998.5	991.6	989.9
55°	909.5	907.7	909.5	896.9	895.1
57.5°	810.5	813.3	819.1	802.1	797.9
60°	744.5	751.5	758.8	738.9	731.9
62.5°	677.0	688.2	698.5	675.7	665.9
65°	575.8	593.4	604.5	580.8	561.5
67.5°	478.2	500.0	513.4	487.8	466.0
70°	410.8	435.4	450.3	424.6	400.0
72.5°	352.0	379.3	391.4	367.2	342.6
75°	265.5	290.0	305.0	284.6	258.3
77.5°	188.4	211.5	223.9	206.2	184.4
80°	138.1	162.7	172.2	157.5	139.9
82.5°	97.9	118.3	124.9	116.0	104.0
85°	44.8	58.9	66.4	62.7	59.2
87.5°	11.5	21.3	27.3	27.3	28.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)