

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: P562493

Luminaire Tested: **SQ4-PW1-150U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562493
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

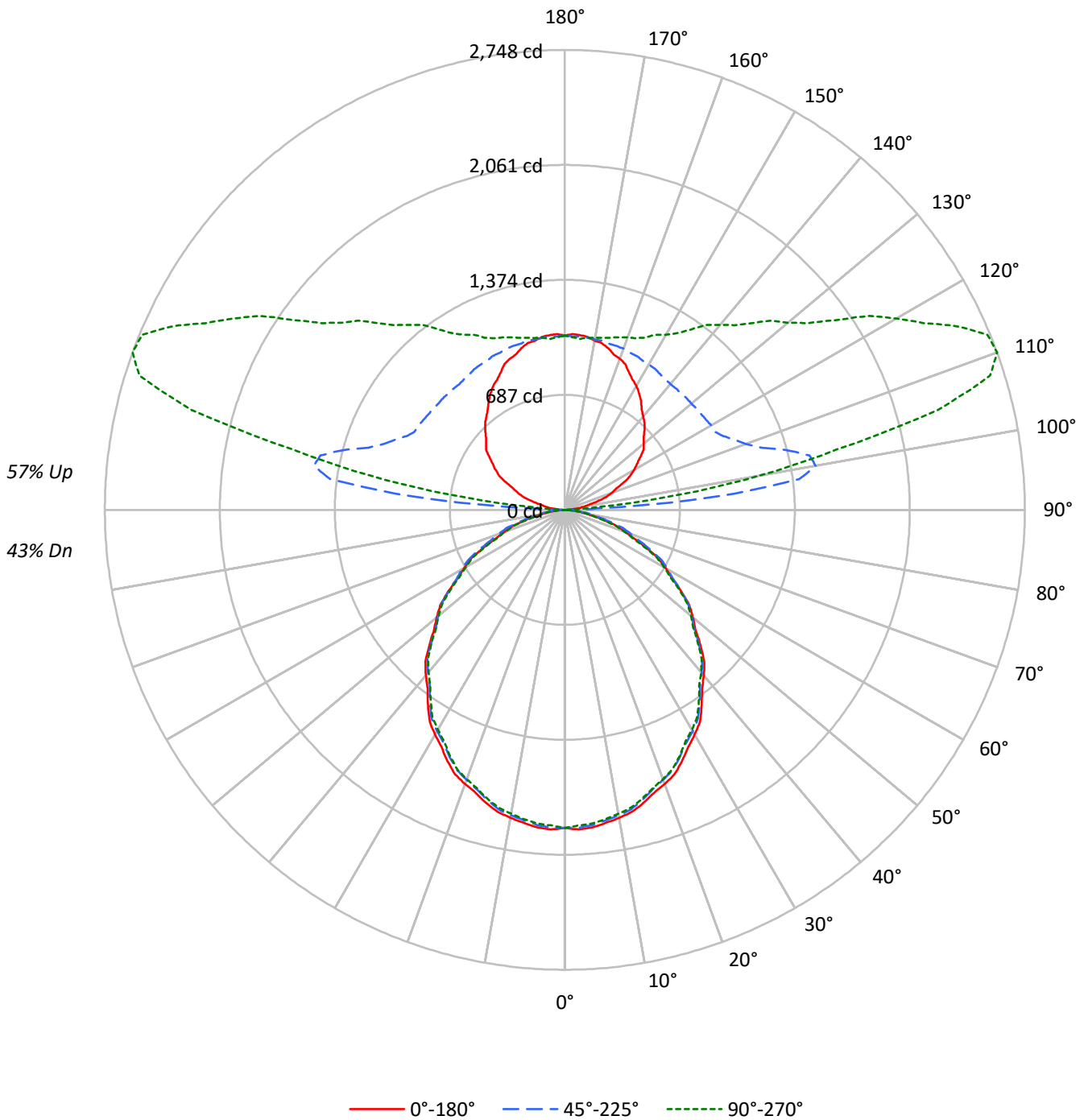
Lumens per Lamp: N/A
Luminaire Lumens: 11299.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.9
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	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°	17535	17535	17535
5°	17649	17509	17432
10°	17508	17366	17273
15°	17322	17130	17066
20°	17115	16852	16819
25°	16876	16569	16518
30°	16519	16270	16162
35°	16050	15824	15730
40°	15550	15308	15246
45°	14945	14748	14683
50°	14325	14204	14108
55°	13656	13656	13441
60°	12823	13070	12607
65°	11734	12319	11442
70°	10345	11338	10073
75°	8833	10149	8595
80°	6849	8544	6939
85°	4435	6563	5854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	1.6
10°-20°	505.3	4.5
20°-30°	749.5	6.6
30°-40°	877.0	7.8
40°-50°	873.1	7.7
50°-60°	753.9	6.7
60°-70°	542.7	4.8
70°-80°	284.6	2.5
80°-90°	70.6	0.6
90°-100°	474.1	4.2
100°-110°	1349.1	11.9
110°-120°	1292.6	11.4
120°-130°	1023.0	9.1
130°-140°	821.1	7.3
140°-150°	642.8	5.7
150°-160°	470.4	4.2
160°-170°	291.4	2.6
170°-180°	98.9	0.9
0°-30°	1433.8	12.7
0°-40°	2310.7	20.5
0°-60°	3937.8	34.9
0°-90°	4835.6	42.8
90°-120°	3115.8	27.6
90°-150°	5602.8	49.6
90°-180°	6463.0	57.2
0°-180°	11299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1906	1884	1890	1885	1882	180
15°	1814	1791	1793	1790	1787	511
25°	1658	1630	1628	1618	1623	762
35°	1425	1405	1405	1392	1397	891
45°	1145	1136	1130	1127	1125	884
55°	849	847	849	837	836	757
65°	538	554	564	542	524	533
75°	248	271	285	266	241	266
85°	42	55	62	58	55	55
90°	0	0	0	0	0	4
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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CATALOG NUMBER: SQ4-PW1-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.6	1900.6	1900.6	1900.6	1900.6
2.5°	1911.3	1895.6	1900.6	1896.4	1887.2
5°	1905.6	1884.3	1890.5	1885.4	1882.2
7.5°	1886.2	1866.5	1871.1	1865.7	1863.7
10°	1868.8	1849.1	1853.7	1846.9	1843.7
12.5°	1848.7	1827.7	1832.3	1825.5	1823.6
15°	1813.5	1790.6	1793.4	1790.0	1786.7
17.5°	1772.7	1749.4	1749.9	1744.5	1743.9
20°	1743.2	1718.6	1716.4	1709.8	1713.0
22.5°	1711.0	1685.2	1682.9	1673.6	1678.2
25°	1657.8	1629.9	1627.6	1617.7	1622.6
27.5°	1596.2	1568.7	1568.7	1554.8	1560.0
30°	1550.6	1524.4	1527.2	1510.6	1517.1
32.5°	1502.4	1478.8	1480.3	1463.7	1470.2
35°	1425.0	1405.4	1404.9	1391.6	1396.6
37.5°	1346.0	1328.6	1325.9	1318.2	1319.5
40°	1291.1	1276.3	1271.0	1265.9	1265.9
42.5°	1233.5	1220.0	1214.7	1211.0	1209.7
45°	1145.4	1135.6	1130.3	1126.9	1125.3
47.5°	1058.3	1049.1	1044.6	1042.2	1040.6
50°	998.0	991.5	989.6	984.6	982.9
52.5°	937.7	933.8	932.0	925.6	924.0
55°	849.0	847.3	849.0	837.2	835.6
57.5°	756.6	759.2	764.6	748.8	744.8
60°	694.9	701.5	708.3	689.8	683.2
62.5°	632.0	642.4	652.1	630.8	621.6
65°	537.5	553.9	564.3	542.1	524.1
67.5°	446.4	466.7	479.2	455.3	435.0
70°	383.5	406.4	420.3	396.3	373.4
72.5°	328.5	354.1	365.4	342.8	319.8
75°	247.8	270.8	284.7	265.7	241.1
77.5°	175.8	197.4	209.0	192.4	172.1
80°	128.9	151.9	160.8	147.0	130.6
82.5°	91.4	110.4	116.5	108.3	97.1
85°	41.9	55.0	62.0	58.5	55.3
87.5°	10.7	19.9	25.5	25.5	26.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)