

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: P562395

Luminaire Tested: **SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562395
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-PW1-100U-125D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

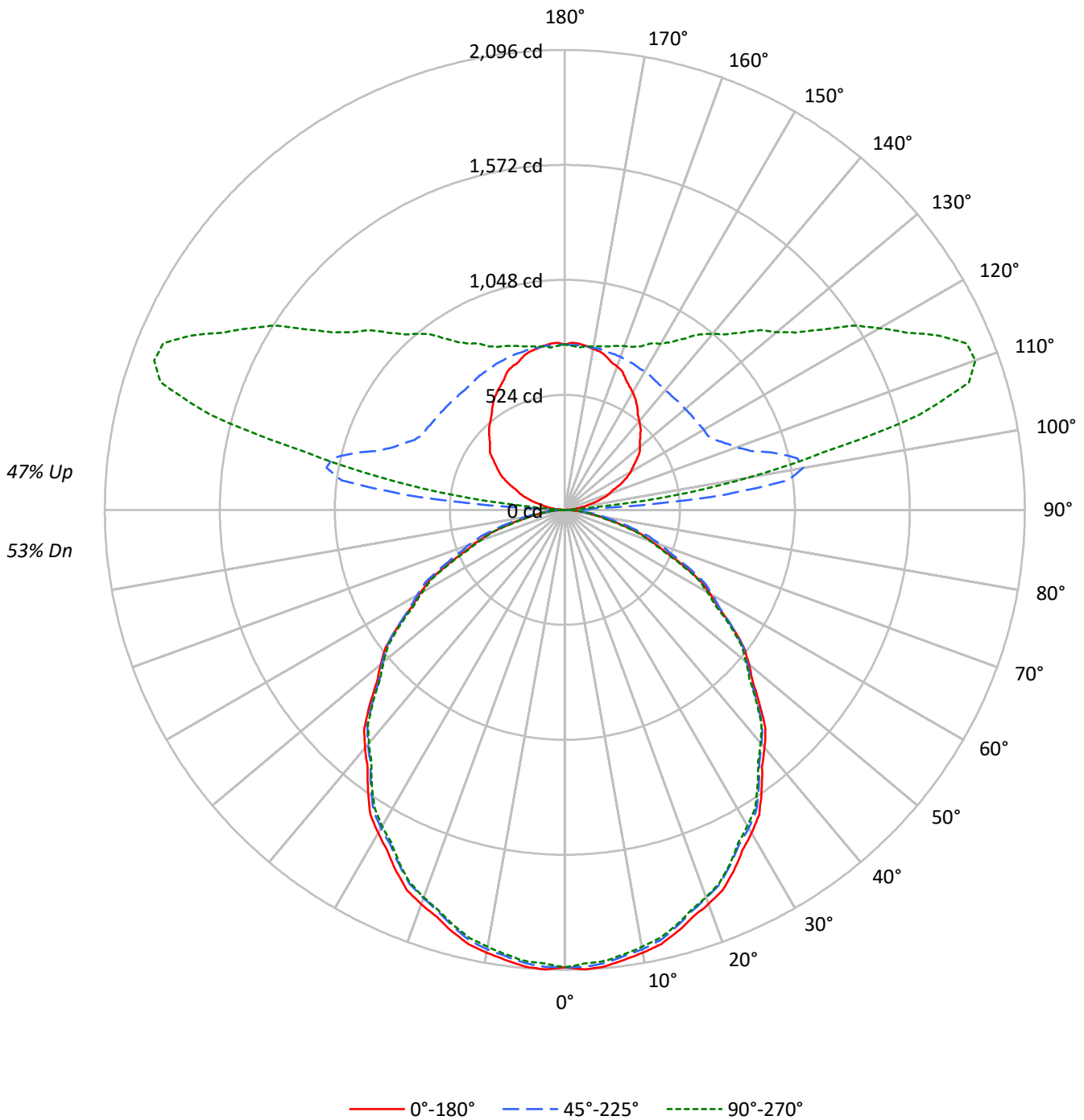
Lumens per Lamp: N/A
Luminaire Lumens: 9987.4 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.6
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	94	90	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	73	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19
8	55	42	34	29	50	39	32	28	34	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19233	19233	19233
5°	19357	19205	19119
10°	19203	19048	18945
15°	18999	18789	18718
20°	18773	18484	18448
25°	18510	18174	18117
30°	18119	17846	17727
35°	17604	17356	17253
40°	17055	16789	16723
45°	16392	16177	16104
50°	15713	15581	15474
55°	14979	14979	14742
60°	14064	14336	13828
65°	12872	13513	12551
70°	11346	12436	11049
75°	9689	11129	9429
80°	7513	9367	7614
85°	4859	7198	6415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	2.0
10°-20°	554.2	5.5
20°-30°	822.1	8.2
30°-40°	961.9	9.6
40°-50°	957.6	9.6
50°-60°	826.9	8.3
60°-70°	595.2	6.0
70°-80°	312.2	3.1
80°-90°	77.4	0.8
90°-100°	343.6	3.4
100°-110°	977.6	9.8
110°-120°	936.6	9.4
120°-130°	741.3	7.4
130°-140°	595.0	6.0
140°-150°	465.8	4.7
150°-160°	340.8	3.4
160°-170°	211.1	2.1
170°-180°	71.6	0.7
0°-30°	1572.6	15.7
0°-40°	2534.5	25.4
0°-60°	4319.1	43.2
0°-90°	5303.9	53.1
90°-120°	2257.8	22.6
90°-150°	4059.9	40.7
90°-180°	4684.0	46.9
0°-180°	9987.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2090	2067	2074	2068	2064	198
15°	1989	1964	1967	1963	1960	561
25°	1818	1788	1785	1774	1780	836
35°	1563	1542	1541	1526	1532	977
45°	1256	1246	1240	1236	1234	969
55°	931	929	931	918	916	831
65°	590	608	619	595	575	584
75°	272	297	312	291	264	291
85°	46	60	68	64	61	61
90°	0	0	0	0	0	3
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2084.6	2084.6	2084.6	2084.6	2084.6
2.5°	2096.4	2079.1	2084.6	2080.0	2069.9
5°	2090.1	2066.8	2073.6	2068.0	2064.4
7.5°	2068.8	2047.3	2052.3	2046.4	2044.2
10°	2049.7	2028.2	2033.2	2025.8	2022.2
12.5°	2027.7	2004.7	2009.7	2002.3	2000.1
15°	1989.1	1964.0	1967.1	1963.3	1959.7
17.5°	1944.3	1918.8	1919.3	1913.4	1912.7
20°	1912.0	1885.0	1882.6	1875.3	1878.9
22.5°	1876.7	1848.3	1845.9	1835.7	1840.7
25°	1818.3	1787.8	1785.3	1774.4	1779.7
27.5°	1750.7	1720.6	1720.6	1705.3	1711.1
30°	1700.8	1672.0	1675.1	1656.8	1664.0
32.5°	1647.9	1622.0	1623.6	1605.4	1612.6
35°	1563.0	1541.5	1541.0	1526.4	1531.8
37.5°	1476.3	1457.3	1454.3	1445.9	1447.3
40°	1416.1	1399.9	1394.0	1388.5	1388.5
42.5°	1352.9	1338.2	1332.3	1328.3	1326.8
45°	1256.3	1245.5	1239.8	1236.0	1234.2
47.5°	1160.8	1150.7	1145.7	1143.1	1141.3
50°	1094.7	1087.5	1085.5	1079.9	1078.1
52.5°	1028.5	1024.2	1022.3	1015.3	1013.5
55°	931.2	929.4	931.2	918.3	916.5
57.5°	829.8	832.7	838.6	821.3	817.0
60°	762.2	769.4	776.9	756.5	749.4
62.5°	693.2	704.7	715.2	691.8	681.8
65°	589.6	607.5	619.0	594.6	574.9
67.5°	489.7	511.9	525.7	499.4	477.2
70°	420.6	445.7	461.0	434.7	409.6
72.5°	360.4	388.4	400.8	375.9	350.8
75°	271.8	297.0	312.2	291.4	264.5
77.5°	192.9	216.6	229.2	211.1	188.8
80°	141.4	166.6	176.3	161.2	143.3
82.5°	100.3	121.1	127.8	118.7	106.5
85°	45.9	60.3	68.0	64.2	60.6
87.5°	11.8	21.8	27.9	28.0	29.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)