

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: P562285

Luminaire Tested: **SQ4-PW1-075U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562285
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-PW1-075U-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 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

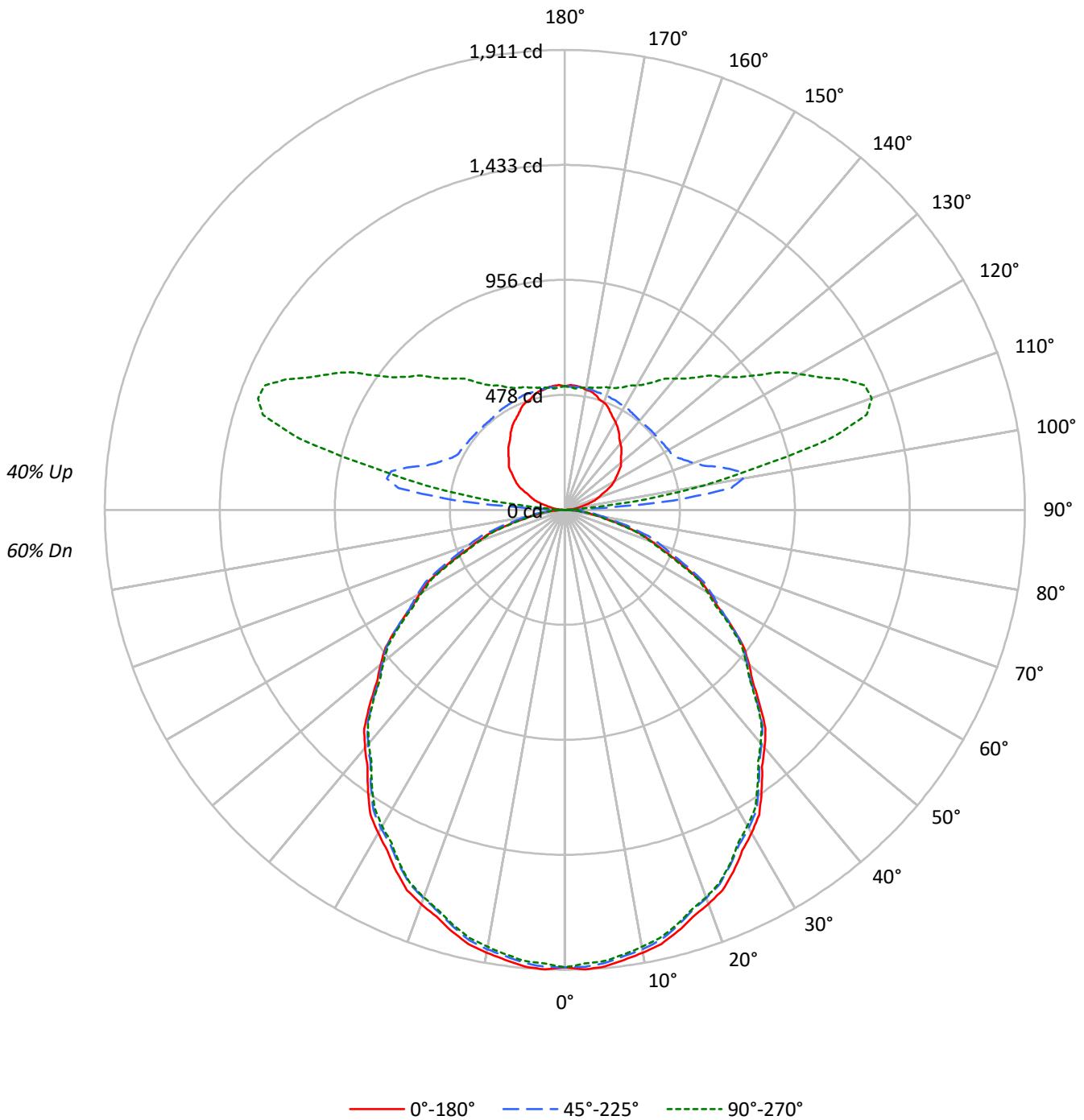
Lumens per Lamp: N/A
Luminaire Lumens: 8026.4 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.4
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	31
5	70	58	50	44	65	55	48	42	48	42	38	42	38	34	37	33	30	27
6	65	52	44	38	60	49	42	37	44	38	33	38	34	30	33	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17	16

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	2.2
10°-20°	505.3	6.3
20°-30°	749.5	9.3
30°-40°	877.0	10.9
40°-50°	873.1	10.9
50°-60°	753.9	9.4
60°-70°	542.7	6.8
70°-80°	284.6	3.5
80°-90°	70.6	0.9
90°-100°	234.1	2.9
100°-110°	666.0	8.3
110°-120°	638.1	8.0
120°-130°	505.0	6.3
130°-140°	405.4	5.1
140°-150°	317.4	4.0
150°-160°	232.2	2.9
160°-170°	143.8	1.8
170°-180°	48.8	0.6
0°-30°	1433.8	17.9
0°-40°	2310.7	28.8
0°-60°	3937.8	49.1
0°-90°	4835.6	60.2
90°-120°	1538.2	19.2
90°-150°	2766.0	34.5
90°-180°	3191.0	39.8
0°-180°	8026.4	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	3
95°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	

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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°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)