

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: P561925

Luminaire Tested: **SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561925
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

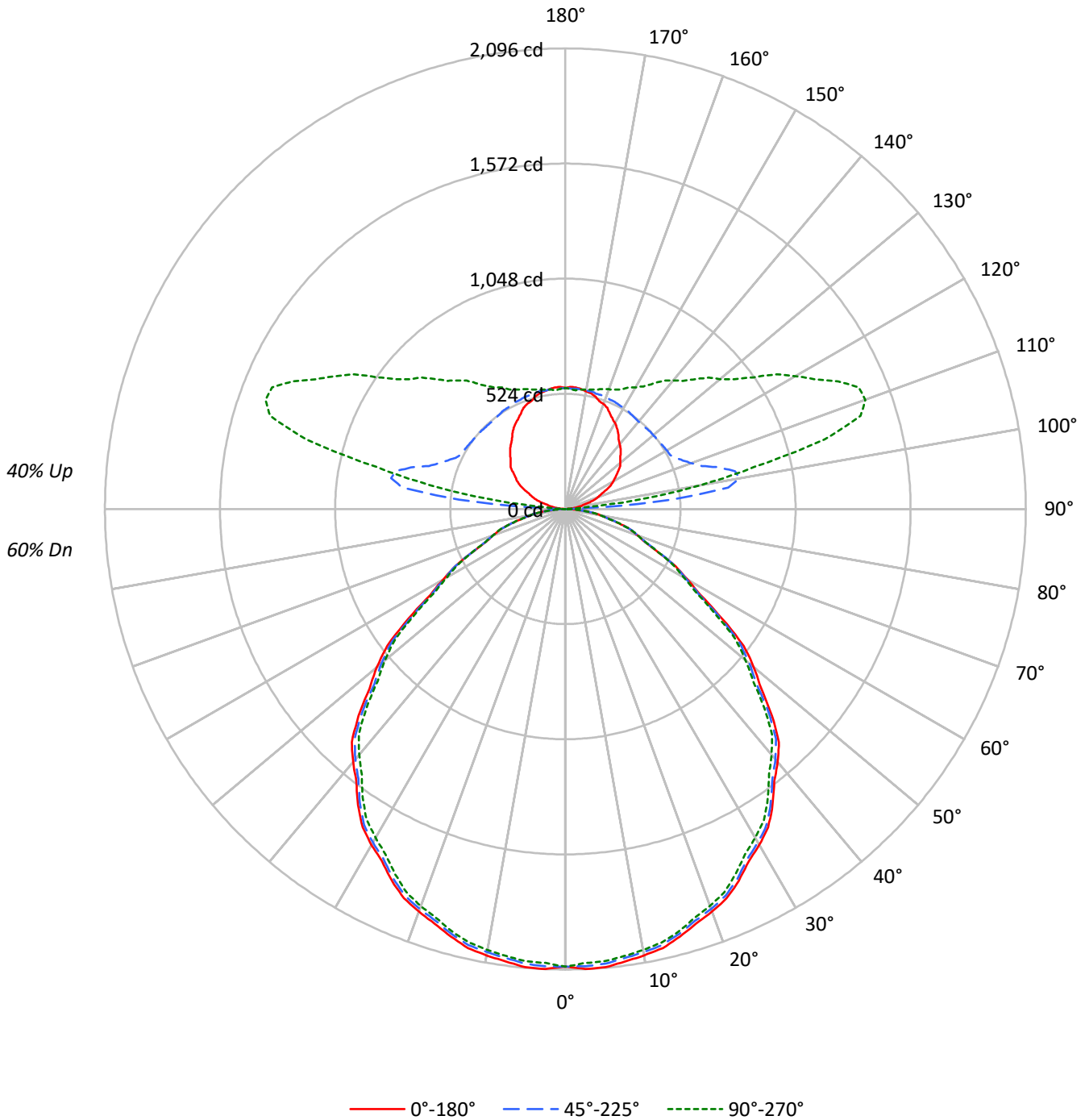
Lumens per Lamp: N/A
Luminaire Lumens: 8624.7 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.3
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	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	46	44	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	34	31	34	31	28	25
7	60	48	40	35	56	45	38	33	40	35	30	36	31	27	31	28	25	22
8	56	44	36	31	53	41	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19215	19215	19215
5°	19388	19239	19139
10°	19327	19192	19091
15°	19242	19122	19019
20°	19145	19022	18881
25°	19010	18883	18663
30°	18806	18671	18404
35°	18528	18366	18103
40°	18106	17911	17587
45°	17368	17063	16712
50°	16067	15681	15371
55°	14023	13706	13417
60°	11817	11717	11487
65°	10221	10261	10182
70°	9388	9436	9436
75°	9015	9015	9079
80°	8485	8575	8485
85°	6838	7601	7601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	2.3
10°-20°	563.5	6.5
20°-30°	849.9	9.9
30°-40°	1012.7	11.7
40°-50°	998.4	11.6
50°-60°	763.0	8.8
60°-70°	472.2	5.5
70°-80°	268.2	3.1
80°-90°	81.6	0.9
90°-100°	250.8	2.9
100°-110°	713.5	8.3
110°-120°	683.6	7.9
120°-130°	541.0	6.3
130°-140°	434.3	5.0
140°-150°	340.0	3.9
150°-160°	248.8	2.9
160°-170°	154.1	1.8
170°-180°	52.3	0.6
0°-30°	1610.4	18.7
0°-40°	2623.0	30.4
0°-60°	4384.5	50.8
0°-90°	5206.5	60.4
90°-120°	1647.8	19.1
90°-150°	2963.1	34.4
90°-180°	3418.0	39.6
0°-180°	8624.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2093	2071	2077	2070	2066	199
15°	2014	1994	2002	1995	1991	568
25°	1867	1845	1855	1835	1833	859
35°	1645	1626	1631	1609	1607	1027
45°	1331	1314	1308	1284	1281	1020
55°	872	858	852	838	834	781
65°	468	465	470	466	466	474
75°	253	253	253	255	255	267
85°	65	68	72	72	72	75
90°	0	0	0	0	0	4
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.7	2082.7	2082.7	2082.7	2082.7
2.5°	2095.6	2077.4	2082.7	2078.2	2068.3
5°	2093.4	2070.6	2077.3	2070.0	2066.5
7.5°	2077.3	2054.9	2061.5	2054.3	2052.2
10°	2063.0	2041.9	2048.6	2041.3	2037.8
12.5°	2047.2	2024.7	2032.8	2024.1	2020.6
15°	2014.5	1993.5	2002.0	1994.7	1991.2
17.5°	1978.6	1956.2	1964.6	1956.3	1951.7
20°	1949.9	1928.9	1937.4	1924.8	1923.0
22.5°	1918.4	1897.3	1905.8	1888.9	1888.6
25°	1867.4	1844.6	1854.9	1835.1	1833.3
27.5°	1806.8	1785.7	1794.2	1774.1	1772.0
30°	1765.2	1744.1	1752.6	1731.0	1727.5
32.5°	1717.8	1698.2	1705.3	1683.7	1681.6
35°	1645.0	1625.7	1630.6	1609.1	1607.3
37.5°	1562.1	1544.6	1547.4	1523.7	1521.9
40°	1503.3	1485.7	1487.1	1462.0	1460.2
42.5°	1438.7	1421.1	1419.7	1394.5	1392.8
45°	1331.1	1313.5	1307.7	1284.3	1280.8
47.5°	1208.4	1190.8	1180.0	1160.9	1158.5
50°	1119.4	1101.8	1092.5	1076.2	1070.9
52.5°	1023.2	1005.7	997.8	982.9	977.7
55°	871.8	857.8	852.1	837.7	834.1
57.5°	728.0	718.5	716.8	702.8	701.4
60°	640.4	635.1	635.0	622.5	622.5
62.5°	565.8	561.9	564.7	556.4	555.0
65°	468.2	464.7	470.0	466.4	466.4
67.5°	391.1	391.1	394.3	392.9	392.9
70°	348.0	348.0	349.8	349.8	349.8
72.5°	309.3	307.9	312.5	312.5	311.1
75°	252.9	252.9	252.9	254.7	254.7
77.5°	197.0	197.3	198.8	198.4	197.0
80°	159.7	161.4	161.4	159.7	159.7
82.5°	122.3	124.1	124.1	123.7	122.3
85°	64.6	68.1	71.8	71.8	71.8
87.5°	18.7	24.3	28.7	28.7	27.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)