

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: P561821

Luminaire Tested: **SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561821
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-PR1-025U-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 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

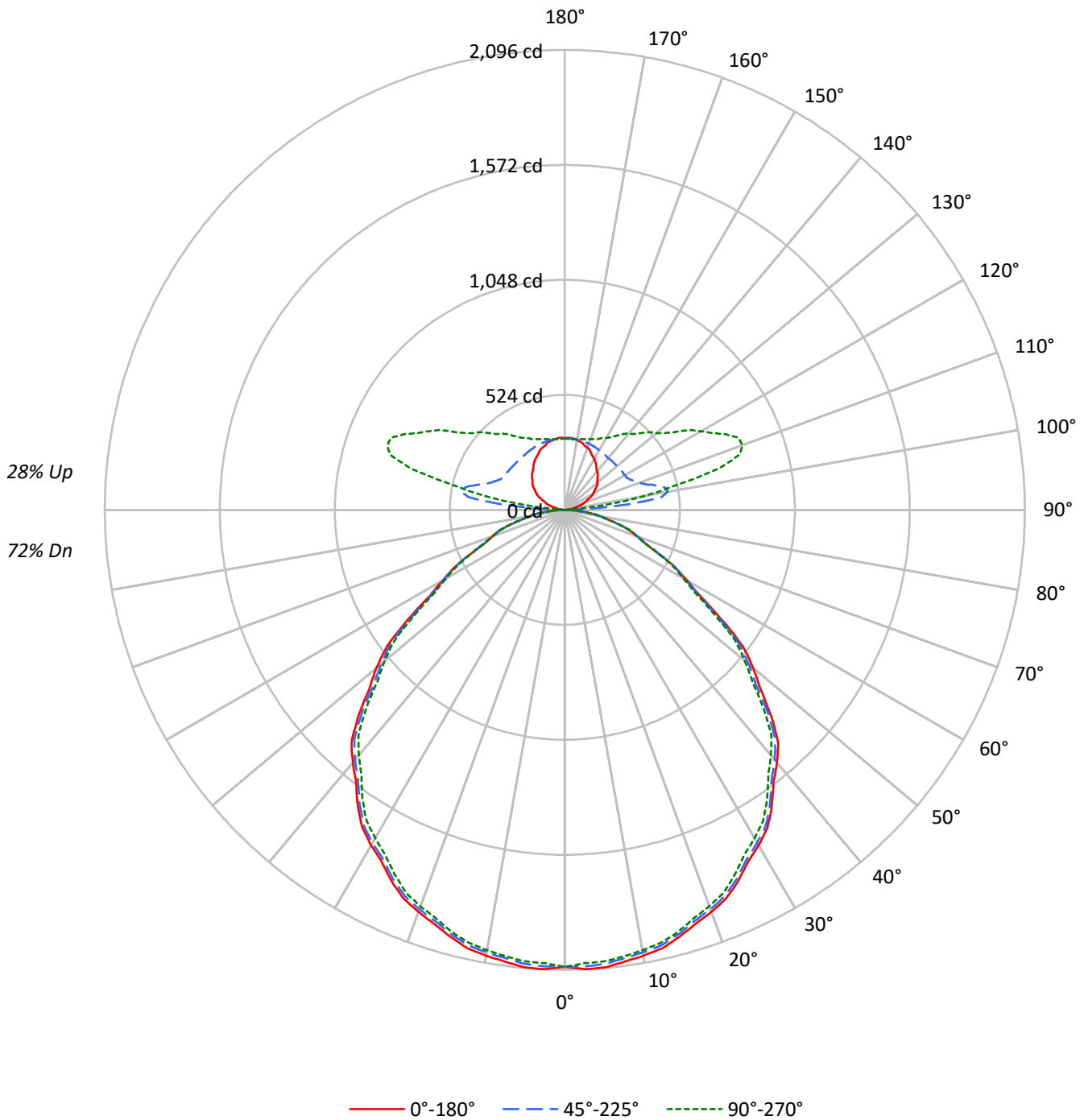
Lumens per Lamp: N/A
Luminaire Lumens: 7232.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.7
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72		
1	103	99	95	91	98	94	90	87	85	82	80	76	74	72	68	67	65	61		
2	94	87	81	75	89	83	77	72	75	70	67	67	64	61	60	58	56	52		
3	86	77	69	63	82	73	66	61	66	61	56	60	56	52	54	51	48	45		
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	48	45	42	39		
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	36	34		
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	36	32	30		
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	26		
8	58	45	38	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24		
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21		
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19		

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	2.7
10°-20°	563.5	7.8
20°-30°	849.9	11.8
30°-40°	1012.7	14.0
40°-50°	998.4	13.8
50°-60°	763.0	10.5
60°-70°	472.2	6.5
70°-80°	268.2	3.7
80°-90°	81.6	1.1
90°-100°	148.6	2.1
100°-110°	422.9	5.8
110°-120°	405.2	5.6
120°-130°	320.7	4.4
130°-140°	257.4	3.6
140°-150°	201.5	2.8
150°-160°	147.4	2.0
160°-170°	91.3	1.3
170°-180°	31.0	0.4
0°-30°	1610.4	22.3
0°-40°	2623.0	36.3
0°-60°	4384.5	60.6
0°-90°	5206.5	72.0
90°-120°	976.8	13.5
90°-150°	1756.4	24.3
90°-180°	2026.0	28.0
0°-180°	7232.7	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	3
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

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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°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)