

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: P523661

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523661
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

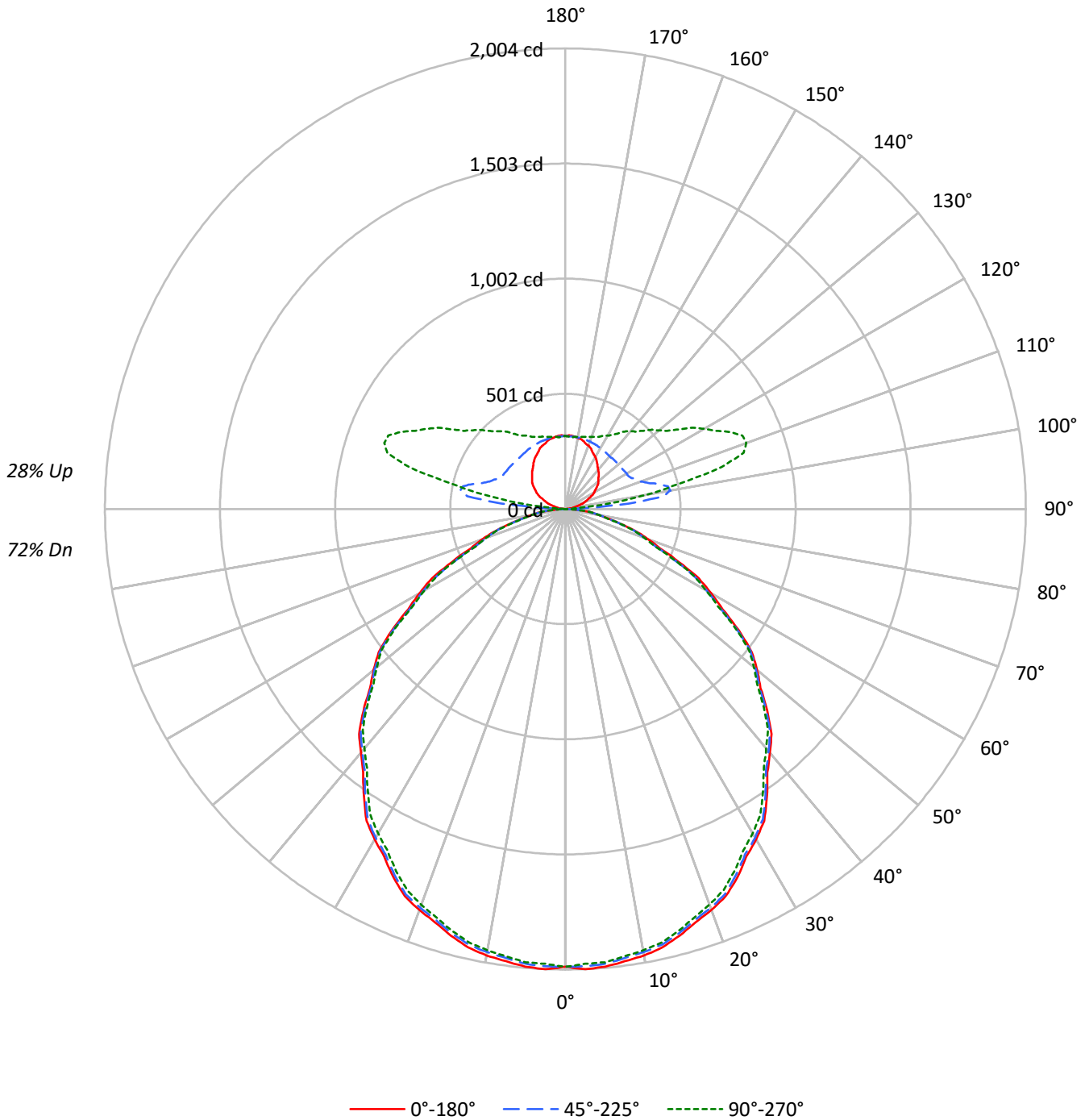
Lumens per Lamp: N/A
Luminaire Lumens: 7070.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.8
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	50	30	10	0	
RCR																						
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	76	76	76	72	
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65	65	65	65	61	
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	55	55	55	52	
3	86	76	69	63	81	73	66	60	66	60	56	59	55	52	54	50	47	47	47	47	44	
4	79	68	60	53	74	65	57	52	59	53	48	53	48	44	48	44	41	41	41	41	38	
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	36	36	36	33	
6	67	54	46	40	63	52	44	39	48	41	36	43	38	34	39	35	32	32	32	32	29	
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28	28	28	28	26	
8	58	45	37	31	55	43	36	31	39	33	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	23	23	23	21	
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	28	24	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18377	18377	18377
5°	18512	18399	18334
10°	18480	18349	18268
15°	18358	18258	18158
20°	18237	18133	17996
25°	18020	17895	17717
30°	17686	17593	17371
35°	17224	17105	16889
40°	16672	16568	16379
45°	16217	16104	15944
50°	15635	15535	15384
55°	14826	14630	14517
60°	13496	13110	13046
65°	11889	11396	11357
70°	10267	9841	9841
75°	8837	8712	8587
80°	7789	7885	7699
85°	6097	6648	6648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	2.7
10°-20°	537.8	7.6
20°-30°	805.5	11.4
30°-40°	944.8	13.4
40°-50°	947.8	13.4
50°-60°	808.5	11.4
60°-70°	527.3	7.5
70°-80°	264.5	3.7
80°-90°	73.2	1.0
90°-100°	144.7	2.0
100°-110°	411.6	5.8
110°-120°	394.4	5.6
120°-130°	312.1	4.4
130°-140°	250.5	3.5
140°-150°	196.1	2.8
150°-160°	143.5	2.0
160°-170°	88.9	1.3
170°-180°	30.2	0.4
0°-30°	1531.7	21.7
0°-40°	2476.5	35.0
0°-60°	4232.8	59.9
0°-90°	5097.9	72.1
90°-120°	950.7	13.4
90°-150°	1709.6	24.2
90°-180°	1972.0	27.9
0°-180°	7070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1999	1980	1987	1980	1980	190
15°	1922	1903	1912	1904	1901	542
25°	1770	1750	1758	1742	1740	814
35°	1529	1514	1519	1501	1500	955
45°	1243	1234	1234	1222	1222	957
55°	922	918	910	904	902	819
65°	545	534	522	518	520	544
75°	248	248	244	243	241	269
85°	58	63	63	63	63	68
90°	0	0	0	0	0	3
95°	16	62	280	97	60	18
105°	64	97	420	741	704	68
115°	119	144	318	674	791	117
125°	168	186	304	504	602	150
135°	205	222	300	426	481	158
145°	242	254	302	368	401	151
155°	276	283	310	333	346	128
165°	305	307	313	320	325	86
175°	320	318	317	315	313	30
180°	318	318	318	318	318	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.8	1991.8	1991.8	1991.8	1991.8
2.5°	2004.4	1988.0	1991.8	1988.8	1980.6
5°	1998.8	1980.0	1986.6	1979.6	1979.6
7.5°	1985.2	1964.7	1971.2	1964.2	1963.9
10°	1972.6	1952.1	1958.6	1951.6	1949.9
12.5°	1954.4	1934.0	1941.9	1933.5	1933.1
15°	1922.0	1903.2	1911.5	1904.4	1901.0
17.5°	1885.3	1864.8	1874.8	1865.0	1863.7
20°	1857.4	1836.9	1846.9	1832.9	1832.9
22.5°	1823.9	1803.4	1814.8	1796.6	1796.6
25°	1770.1	1749.6	1757.9	1742.1	1740.4
27.5°	1706.2	1686.1	1694.7	1676.9	1676.5
30°	1660.1	1641.4	1651.4	1632.2	1630.5
32.5°	1609.9	1592.4	1599.7	1580.5	1578.8
35°	1529.2	1513.8	1518.7	1501.2	1499.5
37.5°	1444.4	1428.7	1434.2	1419.2	1418.5
40°	1384.3	1374.1	1375.6	1363.3	1359.9
42.5°	1328.5	1316.8	1318.3	1306.1	1305.4
45°	1242.9	1234.4	1234.2	1222.0	1222.0
47.5°	1152.1	1145.7	1143.8	1133.6	1133.3
50°	1089.3	1084.2	1082.3	1073.5	1071.8
52.5°	1023.7	1021.3	1015.3	1007.9	1007.6
55°	921.7	918.3	909.5	904.2	902.5
57.5°	811.0	804.2	794.3	786.6	788.0
60°	731.4	724.6	710.5	707.0	707.0
62.5°	654.6	646.4	632.3	627.5	630.2
65°	544.6	534.4	522.0	518.5	520.2
67.5°	444.8	435.6	422.1	422.1	420.7
70°	380.6	375.4	364.8	364.8	364.8
72.5°	323.3	320.9	313.2	313.1	311.8
75°	247.9	247.9	244.4	242.6	240.9
77.5°	185.7	186.4	184.7	182.9	179.8
80°	146.6	150.0	148.4	146.6	144.9
82.5°	110.3	113.7	113.5	110.3	110.0
85°	57.6	62.7	62.8	62.8	62.8
87.5°	15.4	20.8	22.3	22.4	23.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	25.6	59.4	17.3	13.0
95°	15.7	62.3	280.1	96.9	59.8
97.5°	28.9	73.0	431.3	308.6	211.5
100°	38.0	79.3	464.2	470.2	362.2
102.5°	48.2	86.2	456.9	601.8	507.5
105°	64.0	97.0	419.5	741.0	704.4
107.5°	80.0	109.7	375.8	780.2	812.8
110°	91.1	118.9	350.7	765.2	838.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.8	128.1	333.8	729.7	834.1
115°	118.9	143.7	318.1	673.9	791.3
117.5°	134.0	157.3	308.8	612.8	737.2
120°	146.1	165.5	307.8	577.9	697.2
122.5°	155.7	175.2	305.4	547.3	658.0
125°	167.8	186.1	303.6	503.8	602.4
127.5°	181.0	198.1	302.6	477.8	559.1
130°	187.7	204.8	301.2	459.7	530.6
132.5°	195.0	211.6	301.2	445.6	510.8
135°	205.2	222.3	300.0	425.6	481.1
137.5°	214.9	231.5	299.9	408.6	456.6
140°	222.1	239.2	299.4	394.6	440.6
142.5°	230.3	244.6	300.8	383.4	424.7
145°	242.0	254.4	302.4	368.3	401.4
147.5°	252.1	264.1	305.1	353.2	381.7
150°	260.8	269.0	306.0	348.1	368.2
152.5°	267.5	276.2	307.0	341.3	360.0
155°	276.4	282.9	309.6	332.9	346.5
157.5°	287.6	291.4	310.2	329.1	338.7
160°	293.3	296.3	312.7	326.1	334.4
162.5°	296.7	300.2	313.1	323.7	330.0
165°	305.4	306.6	313.3	320.0	324.7
167.5°	311.3	310.3	316.0	319.1	321.0
170°	313.3	312.7	315.1	315.7	318.1
172.5°	317.6	315.6	316.5	314.8	316.6
175°	319.9	318.1	316.9	315.0	312.7
177.5°	320.9	318.0	316.5	314.6	315.1
180°	317.5	317.5	317.5	317.5	317.5

(END OF REPORT)