

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: P523662

Luminaire Tested: **SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523662
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7184.1 lumens
Efficiency: N/A
Efficacy: 103.1 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

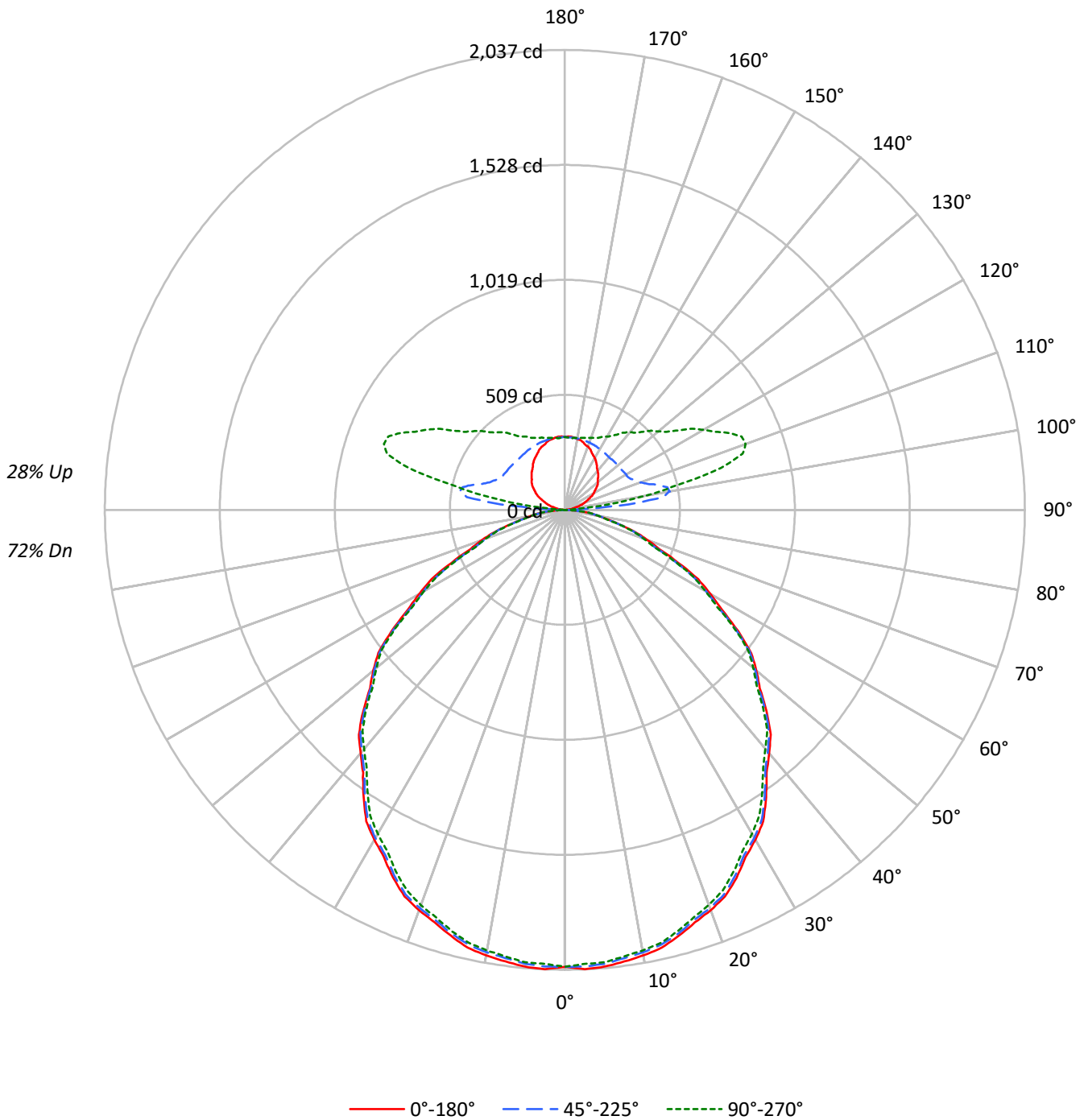
Input Watts (W): 69.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	84	82	79	76	74	72	68	67	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	52
3	86	76	69	63	81	73	66	60	66	60	56	59	55	52	54	50	47	44
4	79	68	60	53	74	65	57	52	59	53	48	53	48	44	48	44	41	38
5	72	61	52	46	68	58	50	45	53	46	42	48	43	39	43	39	36	33
6	67	54	46	40	63	52	44	39	48	41	36	43	38	34	39	35	32	29
7	62	49	41	35	59	47	40	34	43	37	32	39	34	30	36	31	28	26
8	58	45	37	31	55	43	36	31	39	33	29	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	23	21
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18673	18673	18673
5°	18810	18695	18629
10°	18778	18645	18563
15°	18654	18552	18451
20°	18530	18426	18287
25°	18311	18183	18003
30°	17971	17877	17651
35°	17502	17381	17162
40°	16941	16835	16642
45°	16479	16363	16201
50°	15888	15786	15632
55°	15066	14866	14752
60°	13714	13321	13256
65°	12081	11579	11540
70°	10431	10000	10000
75°	8980	8851	8726
80°	7917	8012	7821
85°	6193	6764	6764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	2.7
10°-20°	546.5	7.6
20°-30°	818.5	11.4
30°-40°	960.1	13.4
40°-50°	963.1	13.4
50°-60°	821.6	11.4
60°-70°	535.8	7.5
70°-80°	268.8	3.7
80°-90°	74.4	1.0
90°-100°	147.0	2.0
100°-110°	418.3	5.8
110°-120°	400.8	5.6
120°-130°	317.2	4.4
130°-140°	254.6	3.5
140°-150°	199.3	2.8
150°-160°	145.8	2.0
160°-170°	90.3	1.3
170°-180°	30.7	0.4
0°-30°	1556.4	21.7
0°-40°	2516.4	35.0
0°-60°	4301.1	59.9
0°-90°	5180.2	72.1
90°-120°	966.1	13.4
90°-150°	1737.2	24.2
90°-180°	2004.0	27.9
0°-180°	7184.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2024	2024	2024	2024	2024	
5°	2031	2012	2019	2012	2012	193
15°	1953	1934	1942	1935	1932	551
25°	1799	1778	1786	1770	1768	827
35°	1554	1538	1543	1525	1524	971
45°	1263	1254	1254	1242	1242	972
55°	937	933	924	919	917	832
65°	553	543	530	527	529	552
75°	252	252	248	246	245	273
85°	58	64	64	64	64	69
90°	0	0	0	0	0	3
95°	16	63	285	98	61	18
105°	65	99	426	753	716	69
115°	121	146	323	685	804	119
125°	170	189	308	512	612	153
135°	208	226	305	432	489	161
145°	246	258	307	374	408	154
155°	281	288	315	338	352	130
165°	310	312	318	325	330	87
175°	325	323	322	320	318	31
180°	323	323	323	323	323	

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CATALOG NUMBER: SQ4-PP3-025U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2023.9	2023.9	2023.9	2023.9	2023.9
2.5°	2036.7	2020.1	2023.9	2020.9	2012.6
5°	2031.0	2011.9	2018.6	2011.5	2011.5
7.5°	2017.2	1996.4	2003.0	1995.9	1995.6
10°	2004.4	1983.6	1990.2	1983.1	1981.4
12.5°	1986.0	1965.2	1973.2	1964.7	1964.3
15°	1953.0	1933.9	1942.3	1935.2	1931.7
17.5°	1915.7	1894.9	1905.1	1895.1	1893.7
20°	1887.3	1866.5	1876.7	1862.5	1862.5
22.5°	1853.3	1832.5	1844.1	1825.6	1825.6
25°	1798.7	1777.8	1786.2	1770.2	1768.5
27.5°	1733.7	1713.3	1722.0	1703.9	1703.6
30°	1686.9	1667.8	1678.0	1658.5	1656.8
32.5°	1635.8	1618.1	1625.5	1606.0	1604.2
35°	1553.9	1538.3	1543.2	1525.4	1523.7
37.5°	1467.7	1451.7	1457.4	1442.1	1441.4
40°	1406.6	1396.2	1397.8	1385.3	1381.8
42.5°	1349.9	1338.1	1339.6	1327.2	1326.5
45°	1263.0	1254.3	1254.1	1241.7	1241.7
47.5°	1170.7	1164.1	1162.2	1151.9	1151.6
50°	1106.9	1101.7	1099.8	1090.9	1089.1
52.5°	1040.2	1037.7	1031.7	1024.2	1023.9
55°	936.6	933.1	924.2	918.8	917.1
57.5°	824.1	817.2	807.1	799.3	800.7
60°	743.2	736.3	721.9	718.4	718.4
62.5°	665.2	656.9	642.5	637.6	640.4
65°	553.4	543.0	530.4	526.9	528.6
67.5°	452.0	442.6	428.9	428.9	427.5
70°	386.7	381.5	370.7	370.7	370.7
72.5°	328.5	326.1	318.2	318.2	316.8
75°	251.9	251.9	248.3	246.5	244.8
77.5°	188.7	189.4	187.7	185.8	182.7
80°	149.0	152.5	150.8	149.0	147.2
82.5°	112.1	115.6	115.3	112.1	111.8
85°	58.5	63.7	63.9	63.9	63.9
87.5°	15.6	21.2	22.7	22.7	24.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	26.0	60.4	17.6	13.2
95°	15.9	63.3	284.6	98.5	60.7
97.5°	29.3	74.2	438.3	313.6	214.9
100°	38.6	80.6	471.7	477.7	368.0
102.5°	48.9	87.6	464.3	611.5	515.7
105°	65.0	98.6	426.3	752.9	715.8
107.5°	81.3	111.4	381.9	792.8	825.9
110°	92.6	120.8	356.3	777.6	851.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.4	130.2	339.2	741.5	847.5
115°	120.8	146.0	323.2	684.7	804.1
117.5°	136.2	159.8	313.8	622.7	749.1
120°	148.4	168.2	312.8	587.3	708.4
122.5°	158.2	178.0	310.3	556.2	668.7
125°	170.5	189.1	308.5	512.0	612.1
127.5°	183.9	201.3	307.5	485.6	568.1
130°	190.7	208.1	306.1	467.2	539.1
132.5°	198.1	215.0	306.1	452.8	519.0
135°	208.5	225.9	304.8	432.5	488.8
137.5°	218.3	235.3	304.7	415.2	463.9
140°	225.7	243.1	304.2	401.0	447.7
142.5°	234.0	248.6	305.7	389.6	431.5
145°	245.9	258.5	307.3	374.3	407.9
147.5°	256.1	268.4	310.0	358.8	387.9
150°	265.0	273.4	311.0	353.7	374.1
152.5°	271.8	280.7	311.9	346.8	365.8
155°	280.9	287.5	314.6	338.3	352.1
157.5°	292.2	296.2	315.3	334.4	344.2
160°	298.1	301.1	317.7	331.4	339.8
162.5°	301.5	305.0	318.2	328.9	335.4
165°	310.3	311.5	318.3	325.2	330.0
167.5°	316.4	315.3	321.1	324.3	326.2
170°	318.3	317.7	320.2	320.8	323.2
172.5°	322.7	320.7	321.6	319.8	321.8
175°	325.1	323.3	322.0	320.1	317.7
177.5°	326.0	323.2	321.6	319.7	320.2
180°	322.6	322.6	322.6	322.6	322.6

(END OF REPORT)