

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: P523924

Luminaire Tested: **SQ4-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523924
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-PP3-125U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11139.3 lumens
Efficiency: N/A
Efficacy: 114.8 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: General Diffuse

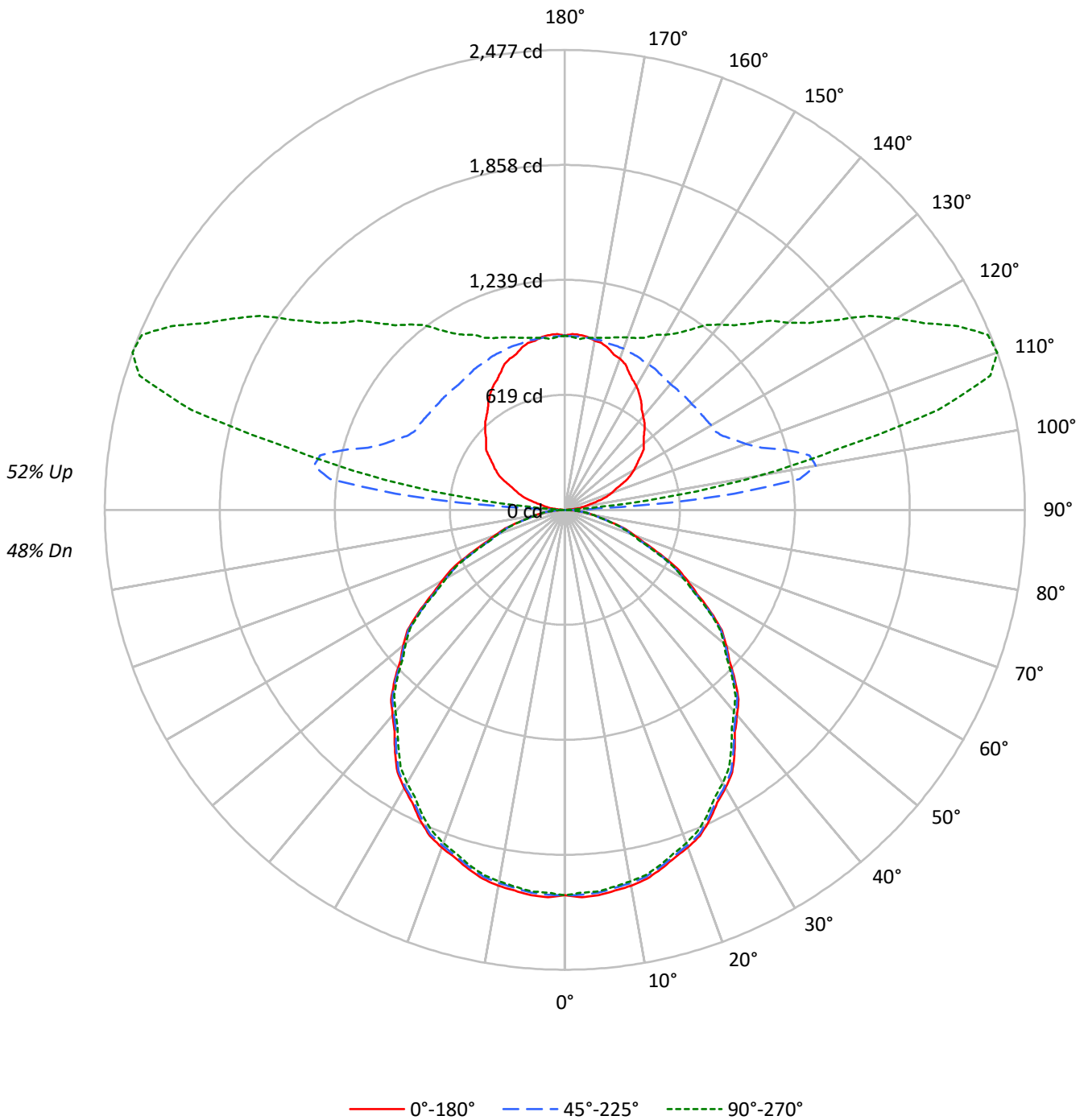
Input Watts (W): 97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0		
RCR																										
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48					48			
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46					41				
2	89	82	76	71	82	75	70	66	63	60	56	53	50	47	42	41	39					34				
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	35	33					29				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29					25				
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	30	28	25					22				
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22					19				
7	58	46	38	32	53	43	36	31	36	31	27	31	26	23	25	22	20					17				
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18					15				
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16					14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14					12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19149	19149	19149
5°	19290	19171	19104
10°	19257	19120	19035
15°	19129	19025	18921
20°	19002	18895	18752
25°	18777	18647	18461
30°	18429	18333	18099
35°	17947	17824	17599
40°	17373	17264	17066
45°	16898	16779	16614
50°	16293	16188	16031
55°	15448	15244	15127
60°	14064	13660	13594
65°	12389	11874	11835
70°	10696	10256	10256
75°	9208	9079	8947
80°	8119	8214	8023
85°	6352	6934	6934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	1.8
10°-20°	560.4	5.0
20°-30°	839.4	7.5
30°-40°	984.5	8.8
40°-50°	987.6	8.9
50°-60°	842.5	7.6
60°-70°	549.5	4.9
70°-80°	275.7	2.5
80°-90°	76.3	0.7
90°-100°	427.5	3.8
100°-110°	1216.3	10.9
110°-120°	1165.4	10.5
120°-130°	922.3	8.3
130°-140°	740.3	6.6
140°-150°	579.6	5.2
150°-160°	424.1	3.8
160°-170°	262.7	2.4
170°-180°	89.1	0.8
0°-30°	1596.0	14.3
0°-40°	2580.5	23.2
0°-60°	4410.6	39.6
0°-90°	5312.1	47.7
90°-120°	2809.1	25.2
90°-150°	5051.4	45.3
90°-180°	5827.0	52.3
0°-180°	11139.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2083	2063	2070	2063	2063	198
15°	2003	1983	1992	1984	1981	565
25°	1844	1823	1832	1815	1814	848
35°	1593	1577	1582	1564	1562	995
45°	1295	1286	1286	1273	1273	997
55°	960	957	948	942	940	854
65°	568	557	544	540	542	566
75°	258	258	255	253	251	280
85°	60	65	66	66	66	71
90°	0	0	0	0	0	4
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2075.5	2075.5	2075.5	2075.5	2075.5
2.5°	2088.6	2071.5	2075.5	2072.4	2063.8
5°	2082.8	2063.2	2070.0	2062.7	2062.7
7.5°	2068.6	2047.2	2054.0	2046.7	2046.4
10°	2055.5	2034.1	2040.9	2033.6	2031.8
12.5°	2036.5	2015.2	2023.5	2014.7	2014.4
15°	2002.7	1983.2	1991.8	1984.4	1980.9
17.5°	1964.5	1943.2	1953.6	1943.4	1942.0
20°	1935.4	1914.1	1924.5	1909.9	1909.9
22.5°	1900.5	1879.1	1891.0	1872.1	1872.1
25°	1844.5	1823.1	1831.7	1815.3	1813.5
27.5°	1777.9	1756.9	1765.9	1747.3	1747.0
30°	1729.9	1710.3	1720.8	1700.7	1698.9
32.5°	1677.5	1659.3	1666.9	1646.9	1645.1
35°	1593.4	1577.4	1582.5	1564.3	1562.5
37.5°	1505.0	1488.7	1494.5	1478.8	1478.1
40°	1442.5	1431.8	1433.4	1420.6	1417.0
42.5°	1384.3	1372.2	1373.7	1361.0	1360.2
45°	1295.1	1286.2	1286.0	1273.3	1273.3
47.5°	1200.5	1193.8	1191.8	1181.2	1180.9
50°	1135.1	1129.7	1127.8	1118.6	1116.9
52.5°	1066.7	1064.2	1057.9	1050.3	1049.9
55°	960.4	956.9	947.7	942.2	940.4
57.5°	845.1	838.0	827.6	819.7	821.1
60°	762.2	755.0	740.3	736.7	736.7
62.5°	682.1	673.6	658.8	653.8	656.7
65°	567.5	556.9	543.9	540.3	542.1
67.5°	463.5	453.9	439.8	439.8	438.4
70°	396.5	391.2	380.2	380.2	380.2
72.5°	336.9	334.4	326.3	326.3	324.9
75°	258.3	258.3	254.7	252.8	251.0
77.5°	193.5	194.3	192.4	190.6	187.4
80°	152.8	156.4	154.6	152.8	151.0
82.5°	115.0	118.5	118.2	115.0	114.6
85°	60.0	65.4	65.5	65.5	65.5
87.5°	16.0	21.7	23.3	23.3	24.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)