

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: P562985

Luminaire Tested: **SQ4-PC3-125U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562985
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

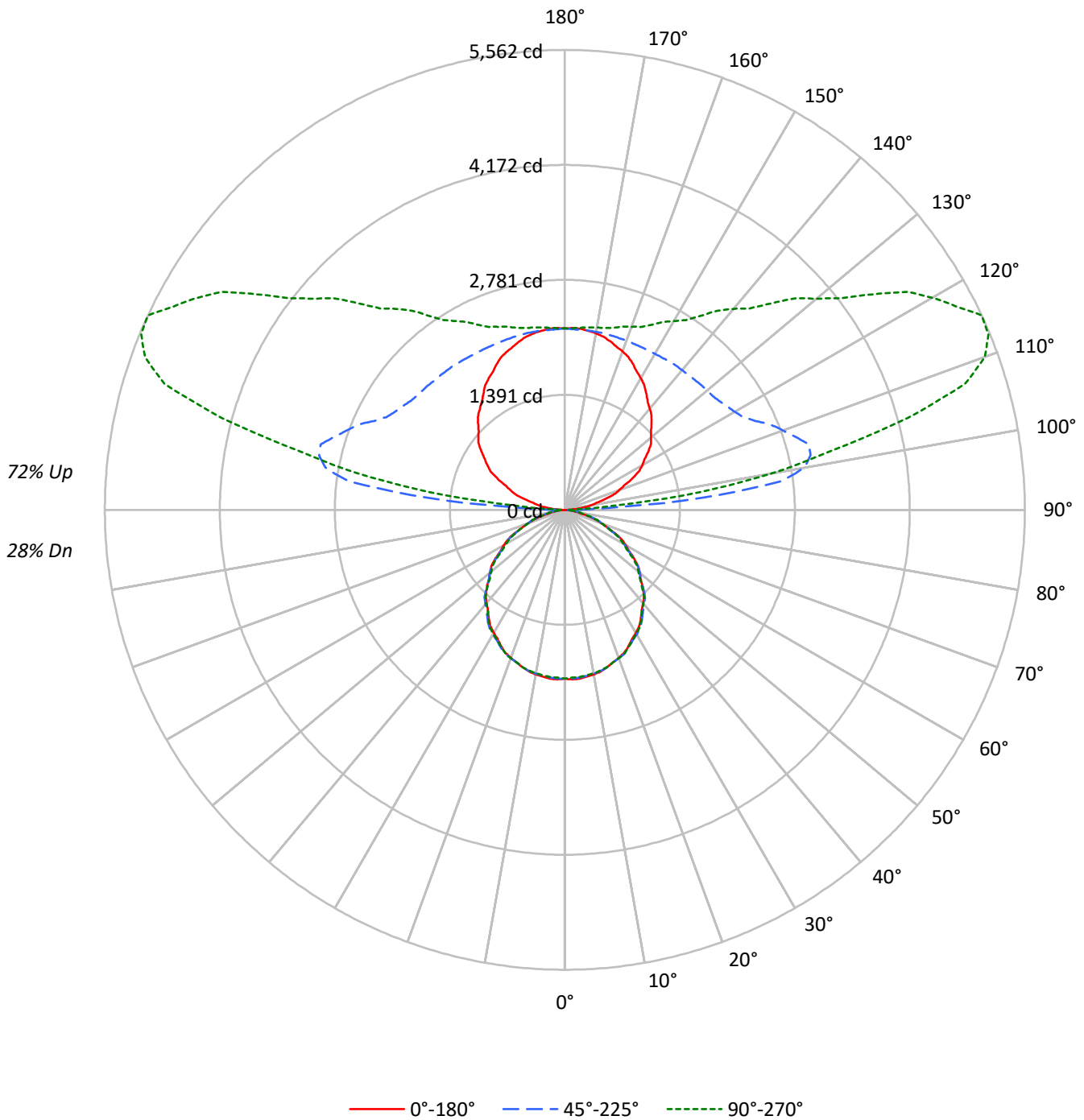
Lumens per Lamp: N/A
Luminaire Lumens: 19734.2 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 146.4
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24				
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20				
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17				
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14				
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13				
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11				
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10				
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9				
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8				
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6280	6280	6280
5°	6327	6286	6263
10°	6312	6282	6264
15°	6278	6278	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6104	6062
40°	5913	5996	5936
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5023
65°	4815	4719	4678
70°	4216	4250	4233
75°	3392	3751	3774
80°	2410	3181	3214
85°	1468	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.0
10°-20°	554.5	2.8
20°-30°	839.8	4.3
30°-40°	1006.8	5.1
40°-50°	1026.6	5.2
50°-60°	896.1	4.5
60°-70°	641.6	3.3
70°-80°	330.4	1.7
80°-90°	88.7	0.4
90°-100°	1025.9	5.2
100°-110°	2763.4	14.0
110°-120°	2900.1	14.7
120°-130°	2353.3	11.9
130°-140°	1845.6	9.4
140°-150°	1417.0	7.2
150°-160°	1018.8	5.2
160°-170°	622.4	3.2
170°-180°	209.9	1.1
0°-30°	1587.6	8.0
0°-40°	2594.4	13.1
0°-60°	4517.1	22.9
0°-90°	5577.8	28.3
90°-120°	6689.3	33.9
90°-150°	12305.3	62.4
90°-180°	14156.0	71.7
0°-180°	19734.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2049	2029	2036	2030	2029	195
15°	1972	1955	1972	1972	1970	556
25°	1821	1808	1834	1828	1828	838
35°	1601	1598	1626	1615	1615	1001
45°	1335	1331	1344	1327	1323	1027
55°	1021	1008	1008	993	993	910
65°	662	647	648	643	643	654
75°	286	298	316	318	318	309
85°	42	64	76	78	76	57
90°	6	16	34	36	36	13
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.9	2041.9	2041.9	2041.9	2041.9
2.5°	2054.0	2036.2	2041.9	2037.2	2029.8
5°	2049.4	2029.1	2036.2	2030.5	2028.6
7.5°	2034.7	2014.3	2023.7	2019.9	2018.0
10°	2021.1	2000.7	2011.6	2007.8	2005.9
12.5°	2002.9	1984.1	1996.5	1992.7	1992.3
15°	1971.9	1955.3	1971.9	1971.9	1970.0
17.5°	1933.0	1917.8	1935.6	1936.7	1935.6
20°	1905.7	1889.1	1911.4	1909.6	1911.4
22.5°	1872.5	1858.8	1882.7	1877.8	1879.6
25°	1820.7	1807.7	1833.9	1828.2	1828.2
27.5°	1759.4	1750.2	1778.7	1772.6	1772.6
30°	1718.6	1709.3	1739.4	1731.8	1731.8
32.5°	1673.2	1666.9	1695.5	1686.4	1686.4
35°	1601.4	1597.7	1625.9	1614.6	1614.6
37.5°	1527.2	1523.9	1549.5	1535.8	1531.4
40°	1472.8	1470.9	1493.6	1478.5	1478.5
42.5°	1418.3	1416.5	1436.1	1418.0	1418.0
45°	1334.8	1331.1	1344.2	1327.1	1323.4
47.5°	1243.6	1239.9	1248.2	1229.6	1227.8
50°	1181.6	1177.9	1181.6	1164.6	1162.7
52.5°	1118.1	1111.5	1112.1	1095.0	1094.7
55°	1020.9	1008.0	1007.7	992.6	992.6
57.5°	918.1	901.1	902.6	889.7	887.8
60°	847.0	828.5	830.0	818.6	816.7
62.5°	777.4	756.0	760.4	747.5	747.2
65°	661.7	646.9	648.5	642.8	642.8
67.5°	550.5	536.9	546.8	542.2	541.8
70°	468.9	459.6	472.7	472.6	470.8
72.5°	393.2	392.9	409.1	409.2	410.3
75°	285.5	298.4	315.7	317.6	317.6
77.5°	190.6	213.5	232.5	233.3	232.9
80°	136.1	162.0	179.6	183.3	181.5
82.5°	92.3	119.6	134.2	138.0	136.1
85°	41.6	63.8	75.6	77.5	75.6
87.5°	13.2	28.7	37.0	37.4	34.5
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)