

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: P563738

Luminaire Tested: **SQ4-PP3-125U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563738
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

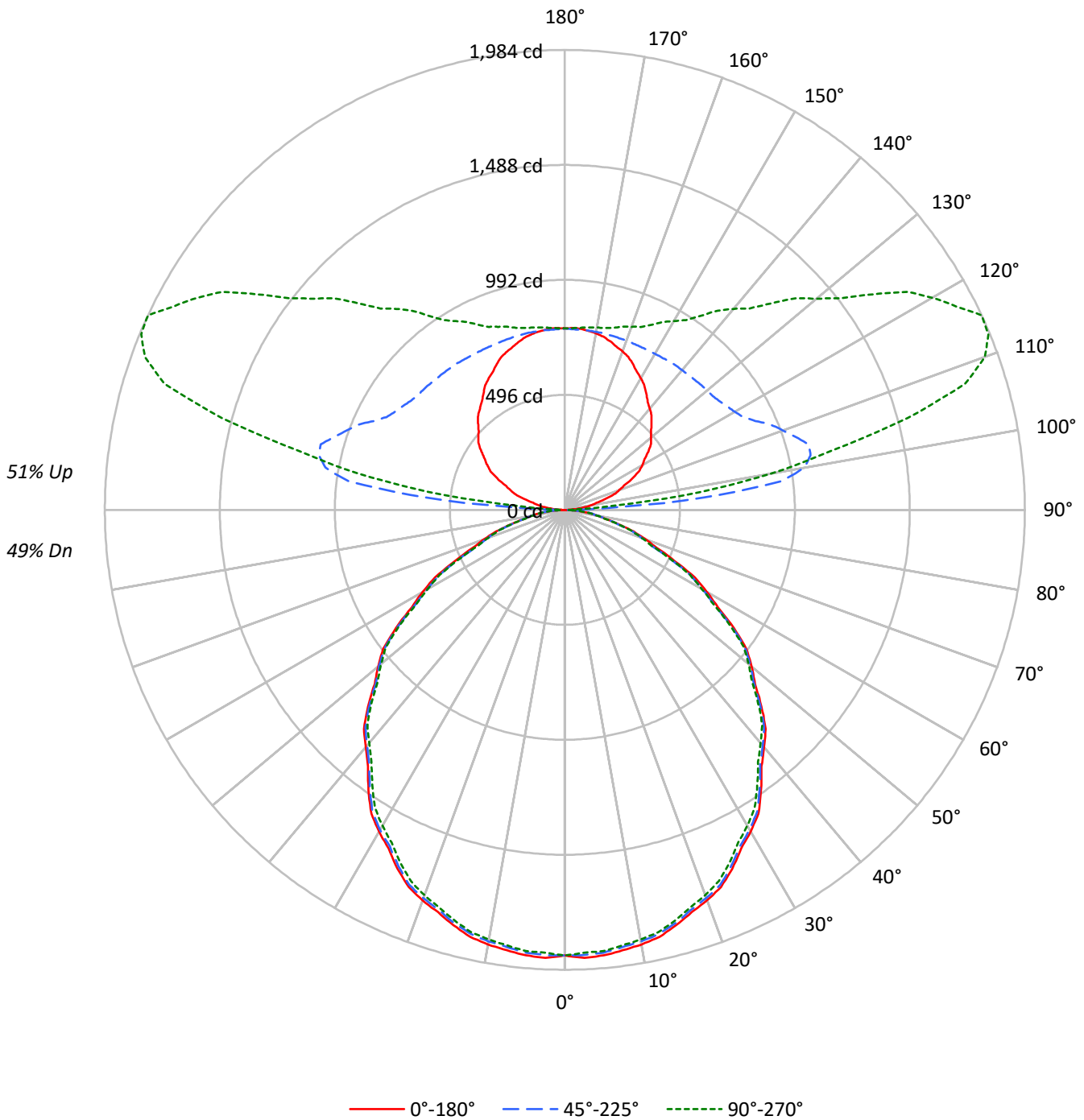
Lumens per Lamp: N/A
Luminaire Lumens: 9972.2 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17697
10°	17838	17711	17633
15°	17720	17623	17526
20°	17602	17503	17371
25°	17394	17273	17101
30°	17071	16982	16766
35°	16624	16511	16302
40°	16093	15992	15809
45°	15653	15544	15390
50°	15091	14995	14850
55°	14311	14121	14012
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9501	9501
75°	8530	8409	8288
80°	7518	7608	7433
85°	5886	6426	6426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.8
10°-20°	519.1	5.2
20°-30°	777.5	7.8
30°-40°	912.0	9.1
40°-50°	914.9	9.2
50°-60°	780.4	7.8
60°-70°	509.0	5.1
70°-80°	255.4	2.6
80°-90°	72.5	0.7
90°-100°	365.9	3.7
100°-110°	985.7	9.9
110°-120°	1034.5	10.4
120°-130°	839.4	8.4
130°-140°	658.3	6.6
140°-150°	505.4	5.1
150°-160°	363.4	3.6
160°-170°	222.0	2.2
170°-180°	74.9	0.8
0°-30°	1478.4	14.8
0°-40°	2390.4	24.0
0°-60°	4085.7	41.0
0°-90°	4922.6	49.4
90°-120°	2386.1	23.9
90°-150°	4389.3	44.0
90°-180°	5050.0	50.6
0°-180°	9972.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1929	1911	1918	1911	1911	183
15°	1855	1837	1845	1838	1835	523
25°	1709	1689	1697	1682	1680	786
35°	1476	1461	1466	1449	1447	922
45°	1200	1192	1191	1180	1180	924
55°	890	886	878	873	871	791
65°	526	516	504	500	502	525
75°	239	239	236	234	232	260
85°	56	60	61	61	61	65
90°	2	6	12	13	13	6
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1934.7	1918.9	1922.6	1919.7	1911.8
5°	1929.3	1911.2	1917.5	1910.8	1910.8
7.5°	1916.1	1896.4	1902.7	1895.9	1895.6
10°	1904.0	1884.2	1890.5	1883.8	1882.1
12.5°	1886.5	1866.7	1874.4	1866.3	1865.9
15°	1855.2	1837.0	1845.0	1838.2	1834.9
17.5°	1819.8	1800.0	1809.7	1800.2	1798.9
20°	1792.8	1773.0	1782.7	1769.2	1769.2
22.5°	1760.5	1740.7	1751.7	1734.2	1734.2
25°	1708.6	1688.8	1696.8	1681.6	1679.9
27.5°	1646.9	1627.4	1635.8	1618.6	1618.2
30°	1602.4	1584.3	1594.0	1575.4	1573.8
32.5°	1553.9	1537.1	1544.1	1525.5	1523.9
35°	1476.0	1461.2	1465.9	1449.0	1447.4
37.5°	1394.1	1379.0	1384.4	1369.9	1369.2
40°	1336.2	1326.3	1327.8	1315.9	1312.6
42.5°	1282.3	1271.1	1272.5	1260.7	1260.0
45°	1199.7	1191.5	1191.3	1179.5	1179.5
47.5°	1112.1	1105.8	1104.0	1094.2	1093.9
50°	1051.4	1046.5	1044.7	1036.2	1034.6
52.5°	988.1	985.8	980.0	972.9	972.6
55°	889.7	886.4	877.9	872.8	871.1
57.5°	782.8	776.2	766.7	759.3	760.6
60°	706.0	699.4	685.8	682.4	682.4
62.5°	631.9	624.0	610.3	605.6	608.3
65°	525.7	515.8	503.8	500.5	502.1
67.5°	429.3	420.4	407.4	407.4	406.1
70°	367.3	362.4	352.2	352.2	352.2
72.5°	312.1	309.7	302.3	302.3	300.9
75°	239.3	239.3	235.9	234.2	232.5
77.5°	179.3	179.9	178.3	176.5	173.6
80°	141.5	144.8	143.2	141.5	139.9
82.5°	106.5	109.8	109.5	106.5	106.2
85°	55.6	60.5	60.7	60.7	60.7
87.5°	15.2	21.3	24.0	24.2	25.5
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)