

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: P564410

Luminaire Tested: **SQ4-PR1-125U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564410
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

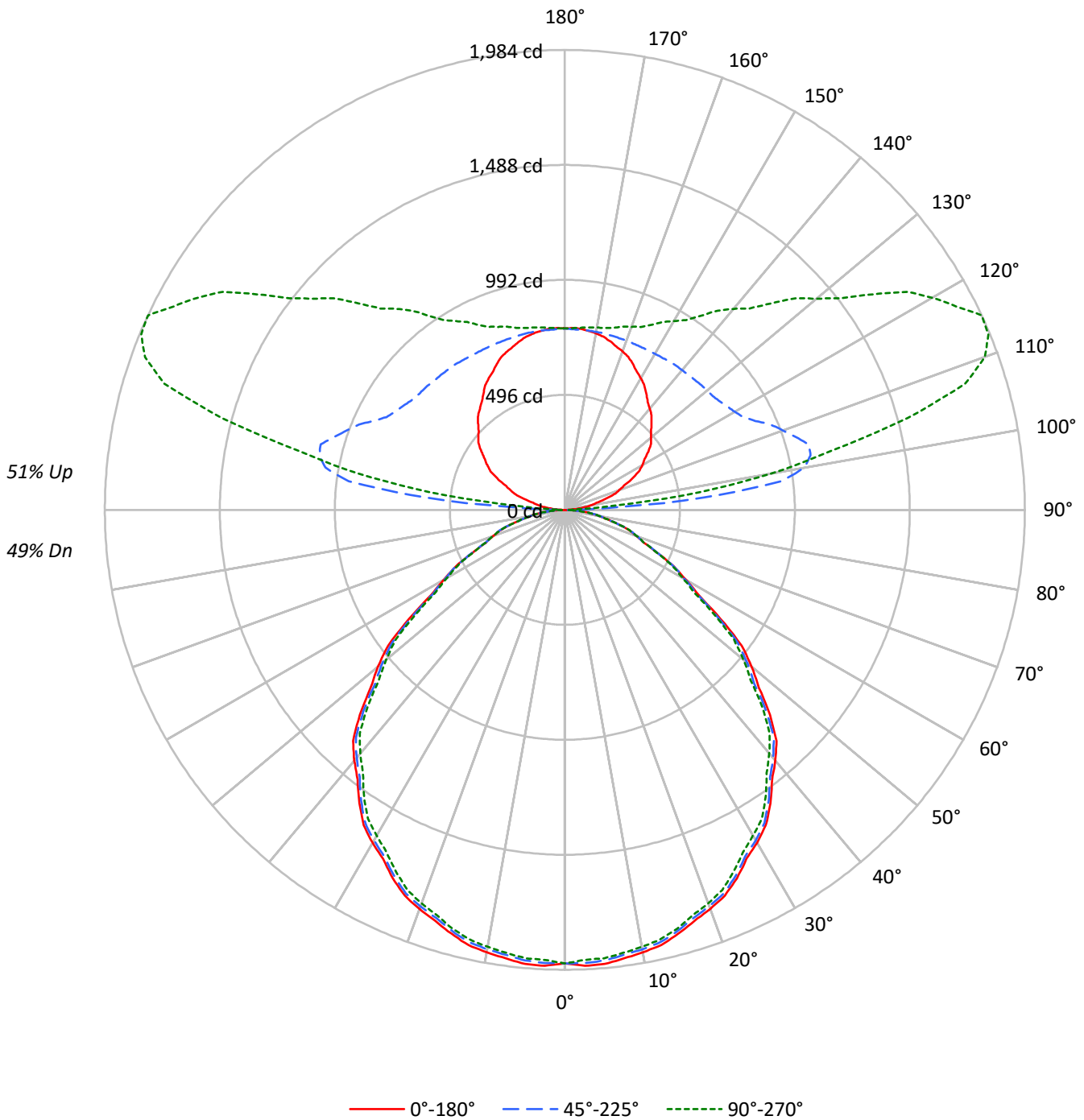
Lumens per Lamp: N/A
Luminaire Lumens: 9943.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	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	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18076	17981
10°	18158	18032	17937
15°	18078	17966	17869
20°	17987	17871	17739
25°	17861	17741	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16316	16031	15702
50°	15095	14732	14442
55°	13176	12876	12606
60°	11103	11009	10791
65°	9603	9641	9566
70°	8821	8864	8864
75°	8470	8470	8530
80°	7970	8060	7970
85°	6426	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	1.9
10°-20°	529.4	5.3
20°-30°	798.5	8.0
30°-40°	951.4	9.6
40°-50°	938.0	9.4
50°-60°	716.9	7.2
60°-70°	443.6	4.5
70°-80°	252.0	2.5
80°-90°	78.5	0.8
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	3.7
160°-170°	222.0	2.2
170°-180°	74.9	0.8
0°-30°	1513.0	15.2
0°-40°	2464.4	24.8
0°-60°	4119.3	41.4
0°-90°	4893.4	49.2
90°-120°	2386.1	24.0
90°-150°	4389.3	44.1
90°-180°	5050.0	50.8
0°-180°	9943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1967	1945	1952	1945	1942	187
15°	1893	1873	1881	1874	1871	534
25°	1754	1733	1743	1724	1722	807
35°	1546	1527	1532	1512	1510	965
45°	1250	1234	1229	1207	1203	958
55°	819	806	800	787	784	734
65°	440	437	442	438	438	446
75°	238	238	238	239	239	251
85°	61	64	67	67	67	71
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°	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1968.8	1951.7	1956.7	1952.5	1943.2
5°	1966.8	1945.4	1951.7	1944.8	1941.5
7.5°	1951.7	1930.6	1936.8	1930.0	1928.1
10°	1938.2	1918.4	1924.7	1917.9	1914.6
12.5°	1923.3	1902.2	1909.9	1901.7	1898.4
15°	1892.7	1872.9	1880.9	1874.1	1870.8
17.5°	1859.0	1837.9	1845.8	1838.0	1833.7
20°	1832.0	1812.2	1820.2	1808.4	1806.7
22.5°	1802.3	1782.6	1790.5	1774.7	1774.4
25°	1754.5	1733.0	1742.7	1724.1	1722.4
27.5°	1697.5	1677.7	1685.7	1666.8	1664.8
30°	1658.4	1638.6	1646.6	1626.3	1623.0
32.5°	1613.9	1595.4	1602.1	1581.8	1579.9
35°	1545.5	1527.4	1532.0	1511.7	1510.1
37.5°	1467.6	1451.1	1453.8	1431.5	1429.9
40°	1412.3	1395.9	1397.2	1373.5	1371.9
42.5°	1351.7	1335.2	1333.8	1310.2	1308.5
45°	1250.5	1234.1	1228.6	1206.6	1203.4
47.5°	1135.3	1118.8	1108.6	1090.7	1088.4
50°	1051.7	1035.2	1026.4	1011.1	1006.2
52.5°	961.3	944.9	937.4	923.5	918.5
55°	819.1	805.9	800.5	787.0	783.7
57.5°	683.9	675.0	673.5	660.3	659.0
60°	601.7	596.7	596.6	584.8	584.8
62.5°	531.6	527.9	530.6	522.8	521.5
65°	439.9	436.6	441.6	438.2	438.2
67.5°	367.4	367.4	370.4	369.1	369.1
70°	327.0	327.0	328.6	328.6	328.6
72.5°	290.6	289.2	293.6	293.6	292.2
75°	237.6	237.6	237.6	239.3	239.3
77.5°	185.1	185.4	186.7	186.4	185.1
80°	150.0	151.6	151.7	150.0	150.0
82.5°	114.9	116.6	116.6	116.3	114.9
85°	60.7	64.0	67.4	67.4	67.4
87.5°	17.9	24.0	29.4	29.5	28.2
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)