

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: P520344

Luminaire Tested: **SQ4-F-125U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520344
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

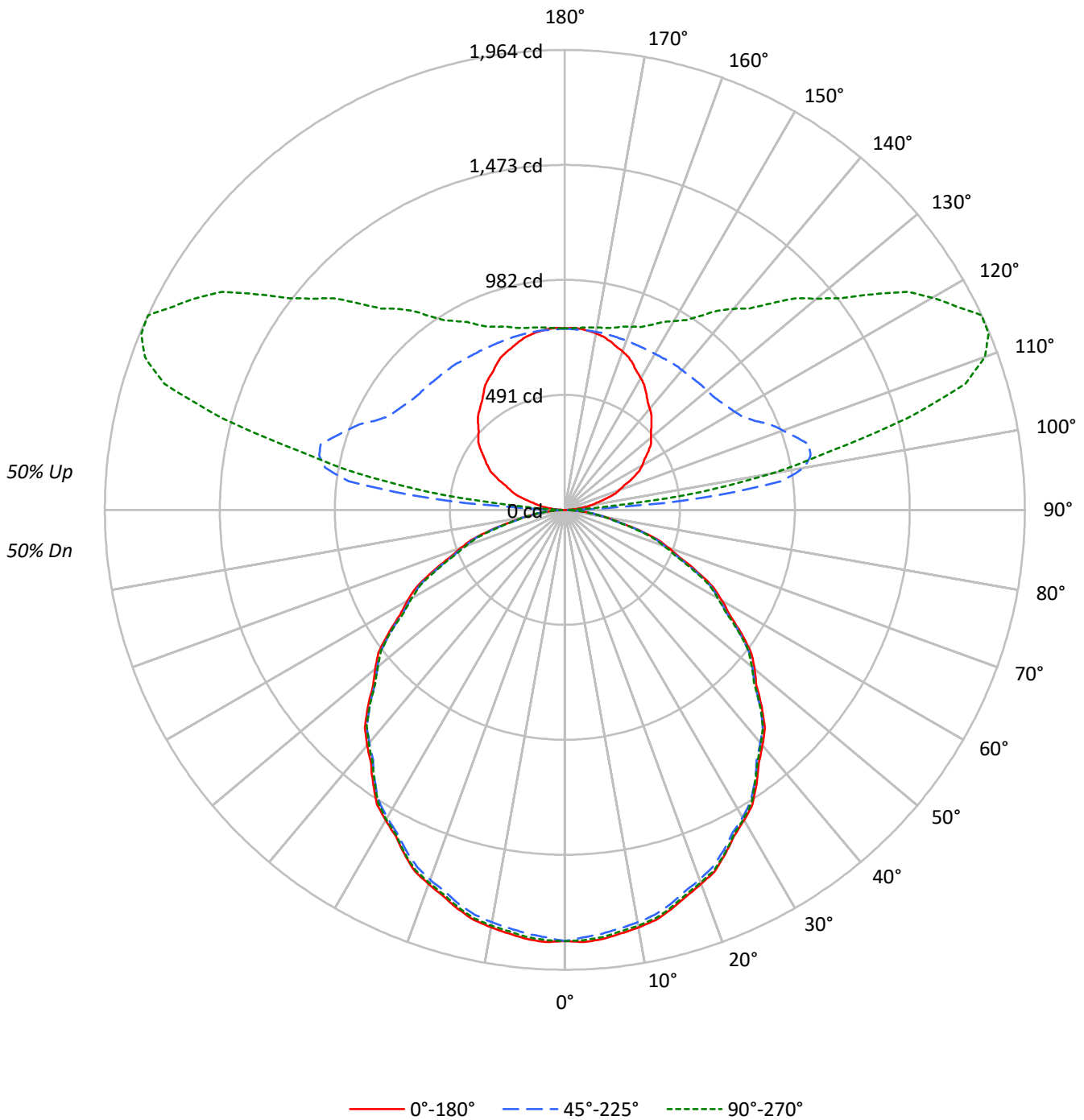
Lumens per Lamp: N/A
Luminaire Lumens: 10025.4 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16991	16991	16991
5°	17046	16830	16971
10°	16968	16759	16891
15°	16854	16651	16786
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16163	16250
35°	16072	15936	15947
40°	15808	15637	15686
45°	15513	15340	15366
50°	15173	14998	14955
55°	14787	14575	14543
60°	14306	13989	13915
65°	13564	13275	13099
70°	12630	12304	12139
75°	11236	10983	10659
80°	9155	8884	8830
85°	5473	6224	6224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	1.7
10°-20°	494.9	4.9
20°-30°	743.5	7.4
30°-40°	887.1	8.8
40°-50°	909.3	9.1
50°-60°	810.5	8.1
60°-70°	603.3	6.0
70°-80°	326.9	3.3
80°-90°	76.9	0.8
90°-100°	362.3	3.6
100°-110°	975.9	9.7
110°-120°	1024.1	10.2
120°-130°	831.1	8.3
130°-140°	651.8	6.5
140°-150°	500.4	5.0
150°-160°	359.8	3.6
160°-170°	219.8	2.2
170°-180°	74.1	0.7
0°-30°	1412.1	14.1
0°-40°	2299.2	22.9
0°-60°	4019.1	40.1
0°-90°	5026.1	50.1
90°-120°	2362.3	23.6
90°-150°	4345.5	43.3
90°-180°	4999.0	49.9
0°-180°	10025.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1840	1838	1817	1834	1832	175
15°	1764	1761	1743	1758	1757	497
25°	1622	1619	1604	1614	1618	747
35°	1427	1426	1415	1415	1416	892
45°	1189	1186	1176	1174	1178	916
55°	919	916	906	899	904	821
65°	621	617	608	604	600	615
75°	315	315	308	302	299	335
85°	52	59	59	60	59	71
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	181	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	388
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	771	782	780	74
180°	774	774	774	774	774	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.6	1841.6	1841.6	1841.6	1841.6
2.5°	1847.2	1844.1	1827.8	1841.5	1839.1
5°	1840.5	1837.6	1817.2	1833.5	1832.4
7.5°	1824.9	1821.2	1802.6	1817.8	1816.0
10°	1811.2	1808.2	1788.9	1804.1	1803.0
12.5°	1794.1	1791.2	1771.8	1787.0	1786.8
15°	1764.5	1760.6	1743.3	1758.5	1757.4
17.5°	1729.1	1724.5	1707.4	1719.3	1721.4
20°	1700.7	1697.7	1681.4	1692.6	1694.6
22.5°	1671.5	1667.7	1650.6	1663.4	1665.4
25°	1621.6	1618.7	1604.4	1613.6	1617.6
27.5°	1566.9	1566.9	1553.7	1560.3	1562.6
30°	1530.4	1530.4	1517.2	1521.4	1525.3
32.5°	1491.5	1488.4	1475.9	1479.2	1483.2
35°	1427.0	1426.0	1414.9	1414.9	1415.9
37.5°	1360.3	1357.6	1345.3	1346.3	1351.0
40°	1312.5	1310.5	1298.3	1298.4	1302.4
42.5°	1263.9	1261.8	1251.3	1249.7	1251.3
45°	1188.9	1185.9	1175.7	1173.8	1177.7
47.5°	1109.0	1109.8	1097.6	1094.8	1097.0
50°	1057.1	1057.1	1044.9	1039.0	1041.9
52.5°	1002.8	1001.2	989.0	982.3	989.2
55°	919.3	916.3	906.1	899.1	904.1
57.5°	833.7	829.2	818.9	811.3	814.1
60°	775.3	768.4	758.1	752.0	754.1
62.5°	714.5	710.8	699.7	690.5	694.9
65°	621.3	617.3	608.1	604.0	600.0
67.5°	529.9	527.3	516.9	512.5	510.0
70°	468.2	463.3	456.1	451.0	450.0
72.5°	408.2	402.5	395.3	390.9	388.4
75°	315.2	315.2	308.1	301.9	299.0
77.5°	226.6	227.4	221.6	219.5	218.1
80°	172.3	172.3	167.2	165.2	166.2
82.5°	120.4	122.7	121.0	118.2	116.8
85°	51.7	58.6	58.8	59.8	58.8
87.5°	9.3	15.7	17.8	16.4	14.8
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.1	168.1	80.9	56.2
95°	55.3	197.0	593.9	303.7	210.2
97.5°	88.2	225.6	931.5	778.1	586.8
100°	113.5	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.6	280.8	1079.3	1614.7	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.7	332.5	991.5	1814.4	1907.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.6
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.0	1629.0	1882.5
120°	382.7	447.4	837.5	1551.8	1812.2
122.5°	404.8	468.7	822.5	1472.9	1732.6
125°	435.0	499.7	806.9	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.1	1212.8	1401.8
132.5°	498.8	561.6	789.2	1164.3	1337.9
135°	523.8	584.6	784.2	1100.3	1245.9
137.5°	547.7	605.9	781.7	1046.0	1165.7
140°	564.3	620.2	779.3	1012.7	1120.7
142.5°	581.7	633.8	777.7	981.5	1072.6
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.8	771.0	906.5	961.1
150°	649.2	684.8	769.4	885.0	930.3
152.5°	664.9	695.9	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.6	727.0	767.7	827.8	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.3	744.5	769.2	810.2	819.8
165°	745.8	754.4	770.4	801.1	805.0
167.5°	757.6	762.6	771.4	794.2	795.7
170°	765.5	767.5	771.4	790.2	790.2
172.5°	770.2	770.6	772.2	786.2	786.2
175°	775.4	774.5	771.4	782.3	780.3
177.5°	777.5	776.1	772.0	778.3	776.7
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)