

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: P520152

Luminaire Tested: **SQ4-F-0U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520152
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

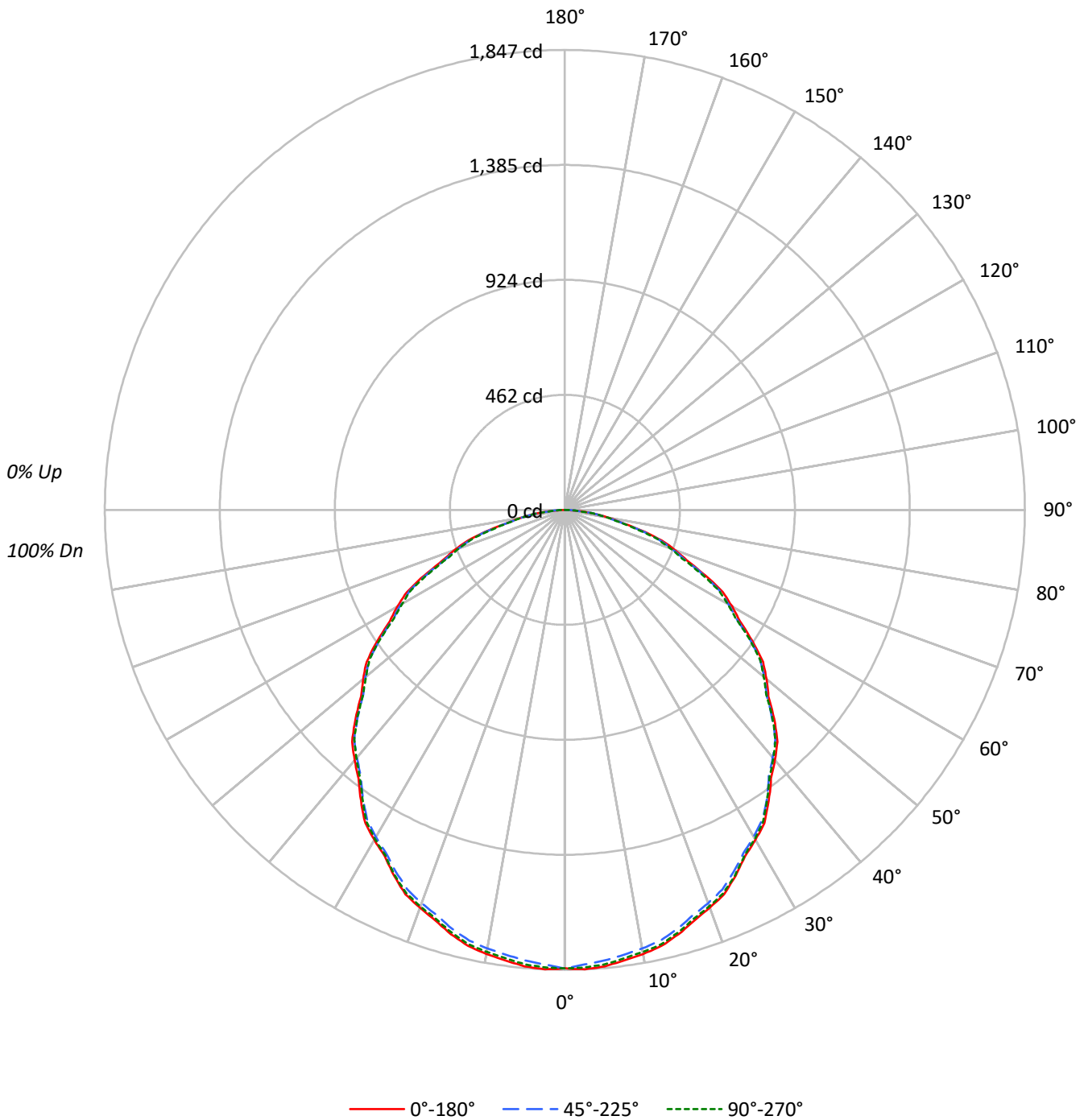
Lumens per Lamp: N/A
Luminaire Lumens: 5024.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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	3.5
10°-20°	494.9	9.8
20°-30°	743.5	14.8
30°-40°	887.1	17.7
40°-50°	909.3	18.1
50°-60°	810.5	16.1
60°-70°	603.3	12.0
70°-80°	326.9	6.5
80°-90°	75.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1412.1	28.1
0°-40°	2299.2	45.8
0°-60°	4019.1	80.0
0°-90°	5024.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5024.3	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	73
90°	0	0	0	0	0	



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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°	8.9	14.5	15.4	13.8	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)