

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: P519864

Luminaire Tested: **SQ4-F-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519864
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

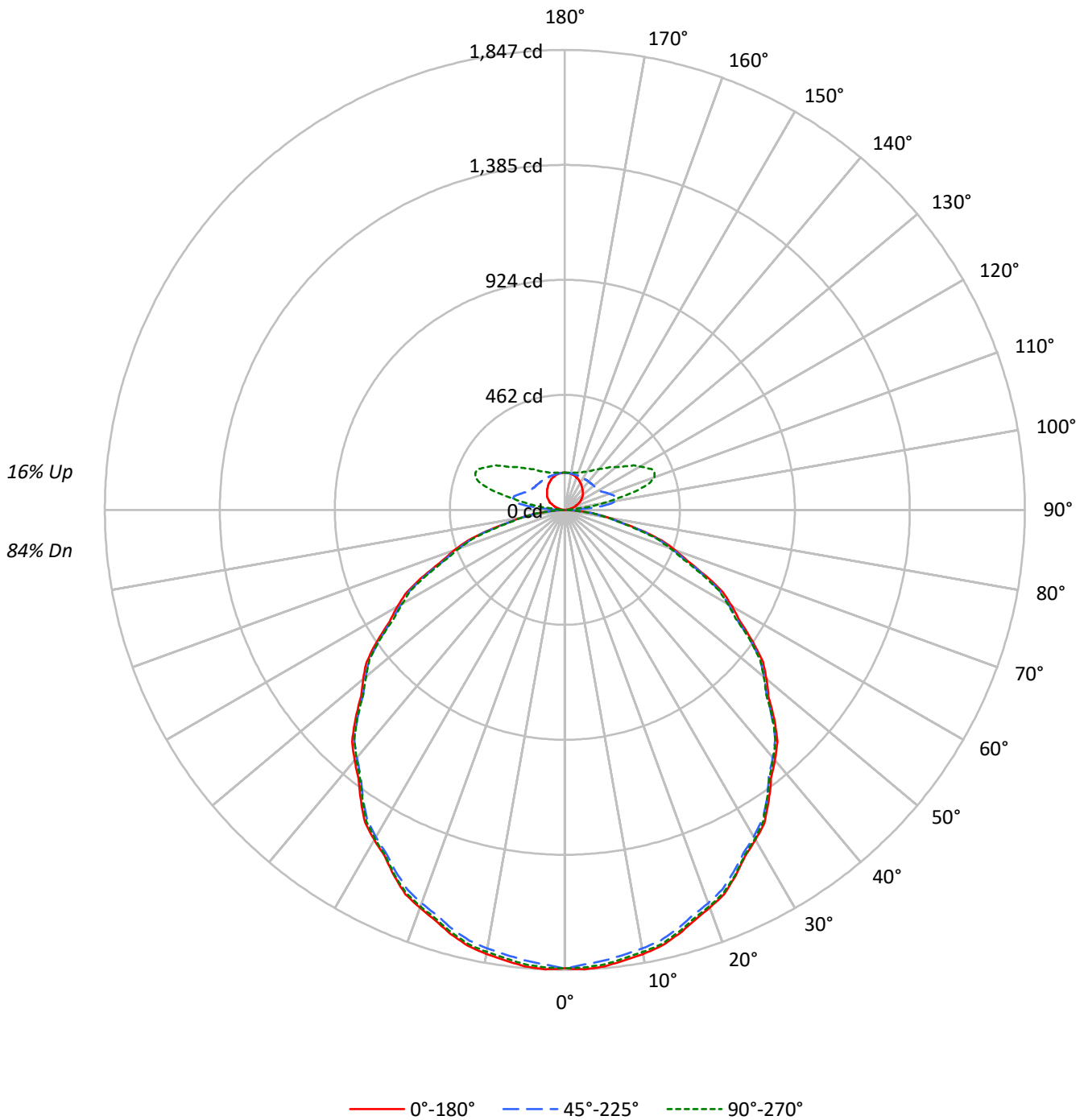
Lumens per Lamp: N/A
Luminaire Lumens: 5991.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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			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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21

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	2.9
10°-20°	494.9	8.3
20°-30°	743.5	12.4
30°-40°	887.1	14.8
40°-50°	909.3	15.2
50°-60°	810.5	13.5
60°-70°	603.3	10.1
70°-80°	326.9	5.5
80°-90°	75.9	1.3
90°-100°	72.6	1.2
100°-110°	191.0	3.2
110°-120°	198.0	3.3
120°-130°	158.8	2.7
130°-140°	124.6	2.1
140°-150°	95.6	1.6
150°-160°	68.9	1.1
160°-170°	42.1	0.7
170°-180°	14.2	0.2
0°-30°	1412.1	23.6
0°-40°	2299.2	38.4
0°-60°	4019.1	67.1
0°-90°	5025.1	83.9
90°-120°	461.6	7.7
90°-150°	840.7	14.0
90°-180°	966.0	16.1
0°-180°	5991.0	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°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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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°	9.1	15.1	17.0	14.6	13.0
90°	1.0	2.9	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	18.9	12.2
95°	9.6	37.6	125.1	64.5	44.0
97.5°	16.6	41.3	187.3	148.9	109.6
100°	22.0	44.4	206.4	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.2	359.7	382.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.2	74.2	169.1	337.3	385.0
117.5°	69.0	81.0	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.2	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.5	101.0	151.7	242.8	282.2
130°	93.6	104.9	150.9	232.0	268.4
132.5°	96.6	107.9	150.2	222.7	255.4
135°	101.2	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.8	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	124.9	147.1	178.9	193.0
147.5°	122.1	129.3	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.3	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.7	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.1	157.0
165°	143.3	145.2	147.1	152.8	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.1	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)