

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: P520257

Luminaire Tested: **SQ4-F-100U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520257
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

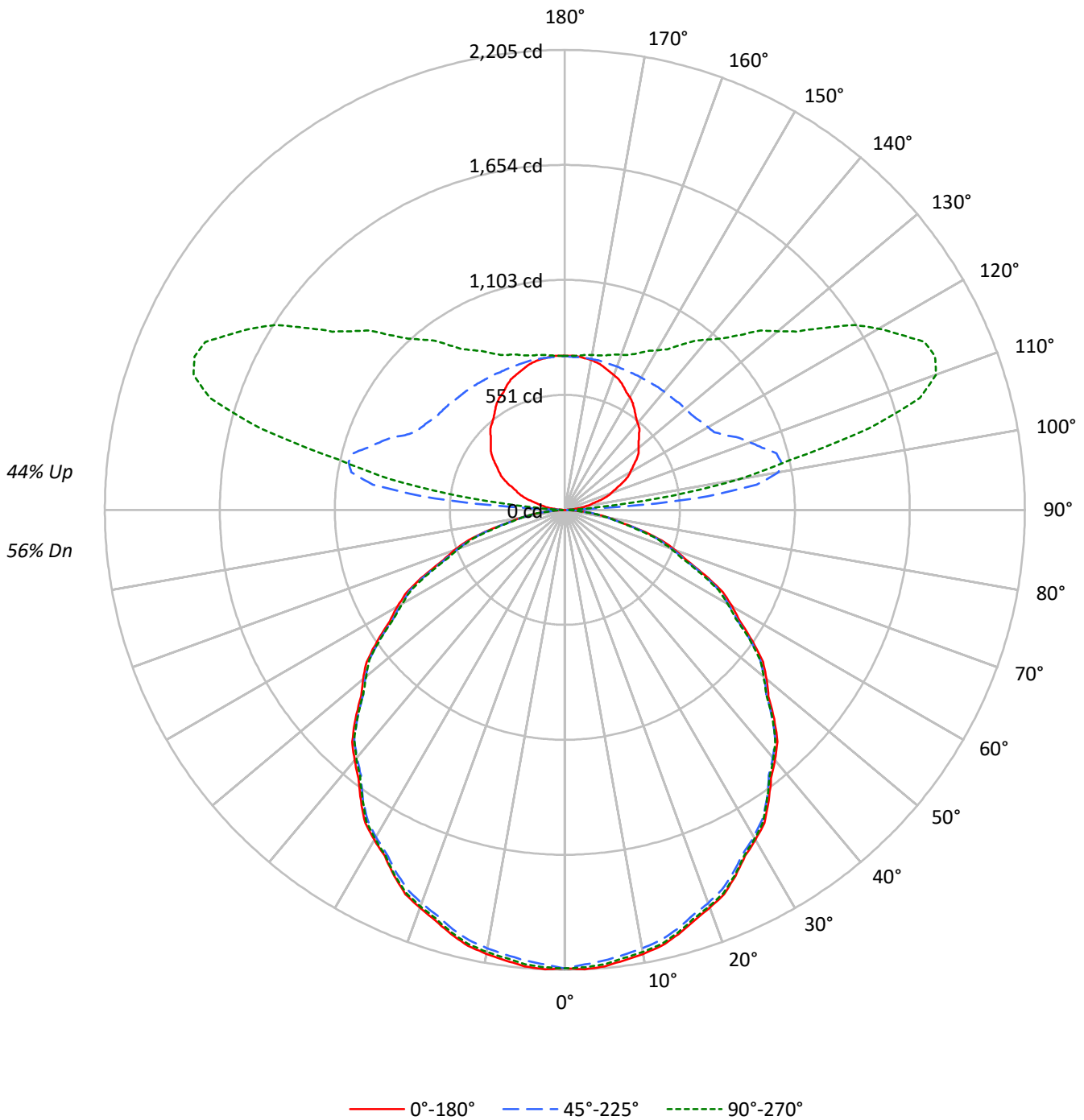
Lumens per Lamp: N/A
Luminaire Lumens: 10792.7 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 104
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56	
	1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47	
	2	90	83	76	71	83	77	71	67	66	62	59	57	54	51	48	45	43	39	
	3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33	
	4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28	
	5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	24	
	6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	31	27	24	21	
	7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	21	19	
	8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	26	22	19	17	
	9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15	
	10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13287	13137	13240
25°	13136	12996	13104
30°	12975	12863	12931
35°	12790	12681	12690
40°	12580	12443	12482
45°	12343	12207	12228
50°	12074	11934	11901
55°	11766	11598	11572
60°	11384	11132	11073
65°	10793	10565	10424
70°	10053	9790	9661
75°	8940	8741	8482
80°	7283	7070	7028
85°	4354	4947	4947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	1.9
10°-20°	590.7	5.5
20°-30°	887.4	8.2
30°-40°	1058.9	9.8
40°-50°	1085.4	10.1
50°-60°	967.4	9.0
60°-70°	720.2	6.7
70°-80°	390.2	3.6
80°-90°	91.1	0.8
90°-100°	345.5	3.2
100°-110°	953.9	8.8
110°-120°	983.8	9.1
120°-130°	790.5	7.3
130°-140°	621.3	5.8
140°-150°	476.5	4.4
150°-160°	342.4	3.2
160°-170°	209.4	1.9
170°-180°	70.6	0.7
0°-30°	1685.5	15.6
0°-40°	2744.4	25.4
0°-60°	4797.2	44.4
0°-90°	5998.7	55.6
90°-120°	2283.2	21.2
90°-150°	4171.5	38.7
90°-180°	4794.0	44.4
0°-180°	10792.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2197	2193	2169	2188	2187	208
15°	2106	2101	2081	2099	2098	594
25°	1936	1932	1915	1926	1931	891
35°	1703	1702	1689	1689	1690	1065
45°	1419	1416	1403	1401	1406	1093
55°	1097	1094	1082	1073	1079	980
65°	742	737	726	721	716	734
75°	376	376	368	360	357	400
85°	62	70	70	71	70	85
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

TEST NUMBER: P520257

CATALOG NUMBER: SQ4-F-100U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2198.1	2198.1	2198.1	2198.1	2198.1
2.5°	2204.9	2201.2	2181.7	2198.1	2195.3
5°	2196.9	2193.4	2169.1	2188.5	2187.3
7.5°	2178.4	2173.8	2151.7	2169.7	2167.6
10°	2161.8	2158.3	2135.3	2153.3	2152.2
12.5°	2141.6	2138.0	2114.9	2133.0	2132.8
15°	2106.2	2101.4	2080.8	2098.9	2097.8
17.5°	2063.8	2058.5	2038.0	2052.3	2054.7
20°	2030.0	2026.4	2007.0	2020.3	2022.8
22.5°	1995.1	1990.7	1970.2	1985.5	1987.9
25°	1935.6	1932.1	1915.0	1926.1	1930.8
27.5°	1870.3	1870.3	1854.5	1862.3	1865.2
30°	1826.8	1826.8	1811.1	1815.9	1820.7
32.5°	1780.2	1776.5	1761.7	1765.6	1770.4
35°	1703.3	1702.2	1688.8	1688.8	1690.0
37.5°	1623.8	1620.4	1605.8	1606.9	1612.6
40°	1566.7	1564.3	1549.7	1549.8	1554.5
42.5°	1508.6	1506.2	1493.6	1491.7	1493.6
45°	1419.0	1415.5	1403.3	1401.0	1405.7
47.5°	1323.8	1324.7	1310.2	1306.8	1309.5
50°	1261.8	1261.8	1247.2	1240.1	1243.7
52.5°	1197.0	1195.0	1180.4	1172.4	1180.7
55°	1097.2	1093.7	1081.5	1073.2	1079.1
57.5°	995.2	989.7	977.5	968.4	971.7
60°	925.4	917.2	904.9	897.7	900.1
62.5°	852.9	848.4	835.2	824.2	829.5
65°	741.6	736.8	725.9	720.9	716.2
67.5°	632.4	629.4	617.0	611.9	608.7
70°	559.0	553.0	544.4	538.3	537.2
72.5°	487.3	480.4	471.8	466.6	463.6
75°	376.2	376.2	367.8	360.4	356.9
77.5°	270.5	271.4	264.4	262.0	260.4
80°	205.6	205.6	199.6	197.2	198.4
82.5°	143.7	146.6	144.4	141.0	139.4
85°	61.7	69.9	70.1	71.4	70.1
87.5°	11.1	18.2	20.4	18.5	16.9
90°	2.4	4.6	9.4	10.7	11.8
92.5°	21.3	88.2	157.7	57.6	44.8
95°	50.7	187.0	626.9	257.7	167.7
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.1	1047.4	851.1
102.5°	132.3	238.2	1061.7	1294.1	1108.0
105°	169.9	262.3	1049.5	1602.2	1508.8
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.8	1893.6



TEST NUMBER: P520257

CATALOG NUMBER: SQ4-F-100U-125D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	263.9	335.0	903.1	1757.5	1921.0
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	426.0	792.2	1474.5	1737.8
122.5°	386.3	445.8	779.9	1399.6	1648.9
125°	417.9	475.6	766.1	1296.6	1521.7
127.5°	444.9	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.5	1271.4
135°	502.9	557.1	744.9	1050.2	1184.1
137.5°	528.8	578.3	742.1	998.7	1113.0
140°	543.1	591.6	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.4
145°	583.1	623.6	735.5	894.1	962.1
147.5°	606.3	641.6	732.9	860.4	913.2
150°	623.3	652.2	731.9	840.3	883.1
152.5°	636.6	663.6	730.9	823.1	858.4
155°	657.5	679.5	729.5	802.2	827.6
157.5°	676.9	693.7	729.8	786.8	804.1
160°	688.2	703.2	730.7	778.2	791.0
162.5°	697.7	710.9	731.7	770.6	780.6
165°	711.8	721.0	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.1	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.3	748.4
175°	737.9	738.9	734.3	744.9	742.5
177.5°	739.7	738.7	734.0	740.6	738.7
180°	737.9	737.9	737.9	737.9	737.9

(END OF REPORT)