

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: P519968

Luminaire Tested: **SQ4-F-050U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519968
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

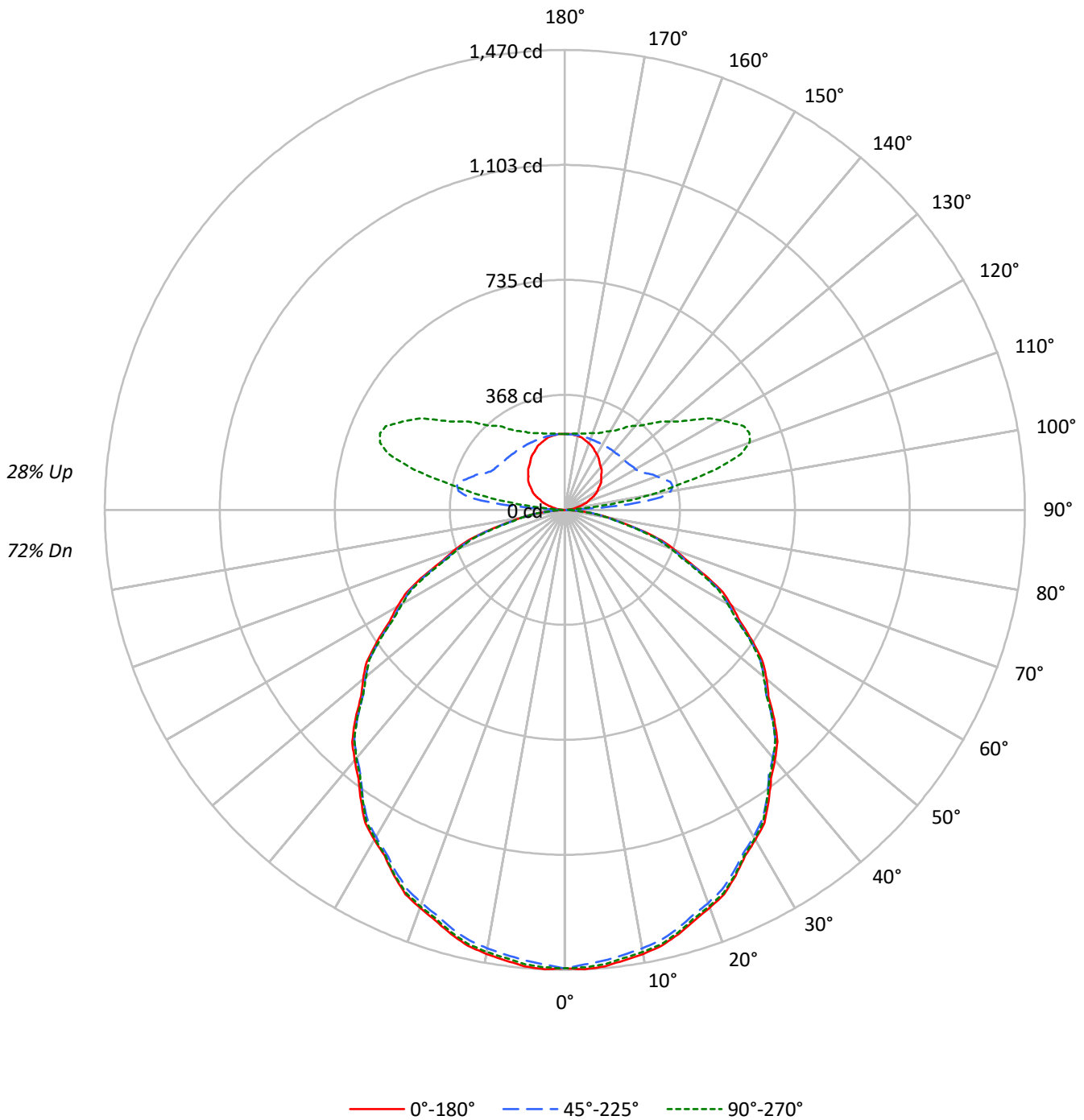
Lumens per Lamp: N/A
Luminaire Lumens: 5584.1 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	103	98	94	90	97	93	90	86	84	81	78	75	73	71	67	66	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	61	80	72	65	59	65	59	54	58	54	50	52	49	46	42
4	78	67	58	52	73	63	56	50	57	51	46	52	47	43	47	43	39	36
5	72	59	51	45	67	57	49	43	51	45	40	46	41	37	42	38	34	31
6	66	53	45	39	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27	24
8	57	44	36	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	22	20
10	49	37	29	24	47	35	28	24	33	26	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13520	13520	13520
5°	13564	13393	13504
10°	13502	13336	13441
15°	13411	13250	13358
20°	13288	13137	13240
25°	13136	12997	13104
30°	12974	12862	12931
35°	12789	12681	12690
40°	12579	12444	12481
45°	12343	12208	12228
50°	12074	11935	11900
55°	11766	11598	11572
60°	11385	11130	11071
65°	10793	10566	10424
70°	10051	9789	9660
75°	8940	8741	8480
80°	7284	7072	7029
85°	4351	4954	4954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	2.5
10°-20°	393.8	7.1
20°-30°	591.6	10.6
30°-40°	705.9	12.6
40°-50°	723.6	13.0
50°-60°	644.9	11.5
60°-70°	480.1	8.6
70°-80°	260.1	4.7
80°-90°	60.7	1.1
90°-100°	116.5	2.1
100°-110°	316.6	5.7
110°-120°	325.5	5.8
120°-130°	260.2	4.7
130°-140°	204.5	3.7
140°-150°	156.8	2.8
150°-160°	112.7	2.0
160°-170°	69.0	1.2
170°-180°	23.2	0.4
0°-30°	1123.7	20.1
0°-40°	1829.6	32.8
0°-60°	3198.1	57.3
0°-90°	3999.0	71.6
90°-120°	758.6	13.6
90°-150°	1380.1	24.7
90°-180°	1585.0	28.4
0°-180°	5584.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1465	1462	1446	1459	1458	139
15°	1404	1401	1387	1399	1398	396
25°	1290	1288	1277	1284	1287	594
35°	1136	1135	1126	1126	1127	710
45°	946	944	936	934	937	729
55°	732	729	721	715	719	653
65°	494	491	484	481	478	490
75°	251	251	245	240	238	266
85°	41	47	47	48	47	57
90°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	165	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.4	1465.4	1465.4	1465.4	1465.4
2.5°	1469.9	1467.5	1454.5	1465.3	1463.5
5°	1464.6	1462.3	1446.1	1459.0	1458.1
7.5°	1452.2	1449.2	1434.4	1446.5	1445.1
10°	1441.2	1438.9	1423.5	1435.5	1434.7
12.5°	1427.6	1425.3	1409.9	1422.1	1421.9
15°	1404.1	1401.0	1387.2	1399.3	1398.5
17.5°	1376.0	1372.3	1358.6	1368.2	1369.8
20°	1353.4	1350.9	1338.0	1346.9	1348.5
22.5°	1330.1	1327.1	1313.5	1323.7	1325.3
25°	1290.4	1288.1	1276.7	1284.0	1287.2
27.5°	1246.8	1246.8	1236.4	1241.6	1243.5
30°	1217.8	1217.8	1207.3	1210.6	1213.8
32.5°	1186.8	1184.3	1174.5	1177.1	1180.2
35°	1135.5	1134.7	1125.9	1125.9	1126.7
37.5°	1082.5	1080.3	1070.6	1071.3	1075.0
40°	1044.4	1042.8	1033.2	1033.2	1036.3
42.5°	1005.7	1004.1	995.7	994.5	995.7
45°	946.0	943.7	935.6	934.1	937.2
47.5°	882.5	883.1	873.4	871.2	872.9
50°	841.2	841.2	831.5	826.7	829.1
52.5°	797.9	796.7	787.0	781.6	787.2
55°	731.5	729.1	721.0	715.4	719.4
57.5°	663.4	659.8	651.7	645.6	647.7
60°	617.0	611.5	603.2	598.5	600.0
62.5°	568.6	565.6	556.8	549.4	553.0
65°	494.4	491.3	484.0	480.6	477.5
67.5°	421.6	419.6	411.3	407.8	405.8
70°	372.6	368.6	362.9	358.9	358.1
72.5°	324.8	320.3	314.5	311.1	309.0
75°	250.8	250.8	245.2	240.3	237.9
77.5°	180.3	181.0	176.4	174.6	173.5
80°	137.1	137.1	133.1	131.5	132.3
82.5°	95.8	97.7	96.3	94.1	92.9
85°	41.1	46.6	46.8	47.5	46.8
87.5°	7.3	12.2	13.4	12.4	11.1
90°	0.8	3.0	5.5	7.1	7.1
92.5°	7.1	31.9	55.4	23.8	20.1
95°	17.2	63.7	202.9	88.3	59.4
97.5°	28.5	70.4	311.2	242.1	170.1
100°	35.9	74.9	344.2	348.9	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.2	530.1	498.8
107.5°	69.5	97.1	328.0	580.9	589.7
110°	78.8	104.0	313.0	590.9	628.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.9	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.6	266.3	514.4	601.2
120°	120.2	140.0	260.7	487.5	573.8
122.5°	127.1	146.9	257.0	460.6	543.7
125°	137.4	156.4	252.1	424.8	501.1
127.5°	146.6	165.5	249.4	397.7	463.2
130°	152.2	170.5	248.3	380.7	439.5
132.5°	157.8	176.1	247.0	366.2	418.2
135°	165.4	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.1	328.2	365.4
140°	178.8	194.8	243.6	316.9	350.5
142.5°	183.8	198.5	243.0	308.0	336.1
145°	191.3	205.0	242.0	294.0	316.2
147.5°	199.7	211.5	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.3	240.6	270.9	282.2
155°	216.2	223.8	240.4	264.0	271.6
157.5°	222.7	228.5	240.4	259.3	265.0
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.1	237.3	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.8	249.3
170°	239.6	241.2	242.0	247.5	247.5
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.6	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	243.9	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)