

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: P520169

Luminaire Tested: **SQ4-F-0U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520169
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

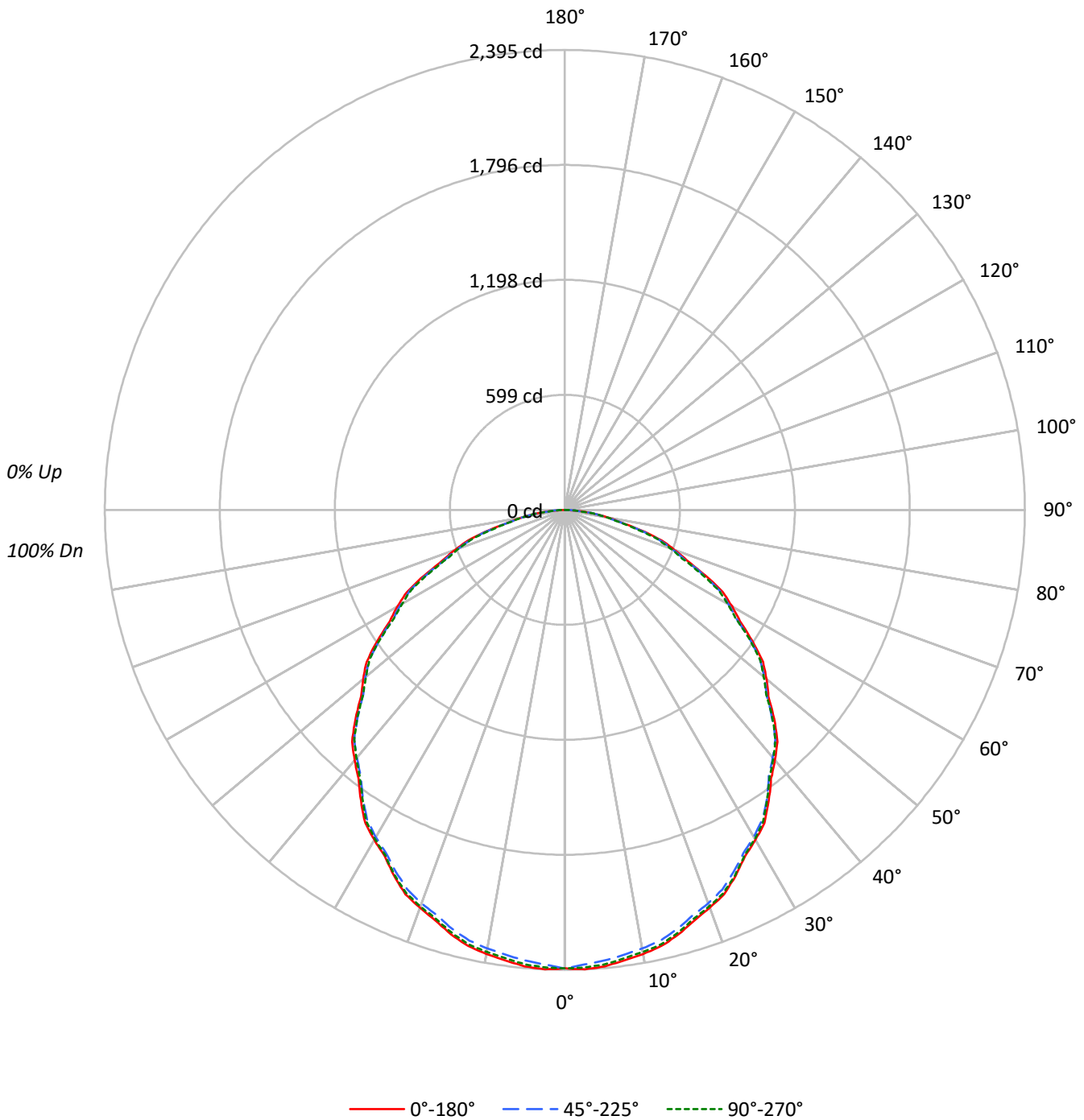
Lumens per Lamp: N/A
Luminaire Lumens: 6515.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 65
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



TEST NUMBER: P520169
CATALOG NUMBER: SQ4-F-0U-125D-940-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P520169

CATALOG NUMBER: SQ4-F-0U-125D-940-1D-UNV-STD-W-6

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°	14687	14687	14687
5°	14736	14549	14671
10°	14668	14487	14603
15°	14570	14394	14512
20°	14435	14272	14383
25°	14271	14119	14236
30°	14095	13973	14048
35°	13895	13776	13786
40°	13666	13518	13560
45°	13411	13261	13284
50°	13117	12966	12928
55°	12783	12600	12571
60°	12368	12092	12029
65°	11725	11476	11324
70°	10920	10636	10494
75°	9715	9494	9214
80°	7913	7683	7637
85°	4728	5378	5378



TEST NUMBER: P520169

CATALOG NUMBER: SQ4-F-0U-125D-940-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	3.5
10°-20°	641.7	9.8
20°-30°	964.1	14.8
30°-40°	1150.4	17.7
40°-50°	1179.1	18.1
50°-60°	1051.0	16.1
60°-70°	782.4	12.0
70°-80°	423.9	6.5
80°-90°	97.3	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°	1831.1	28.1
0°-40°	2981.5	45.8
0°-60°	5211.6	80.0
0°-90°	6515.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6515.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2388	2388	2388	2388	2388	
5°	2387	2383	2356	2377	2376	226
15°	2288	2283	2260	2280	2279	645
25°	2103	2099	2080	2092	2098	968
35°	1850	1849	1835	1835	1836	1157
45°	1542	1538	1524	1522	1527	1188
55°	1192	1188	1175	1166	1172	1065
65°	806	800	788	783	778	798
75°	409	409	400	392	388	434
85°	67	76	76	78	76	94
90°	0	0	0	0	0	



TEST NUMBER: P520169

CATALOG NUMBER: SQ4-F-0U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2387.9	2387.9	2387.9	2387.9	2387.9
2.5°	2395.3	2391.2	2370.1	2387.9	2384.8
5°	2386.6	2382.8	2356.4	2377.4	2376.2
7.5°	2366.5	2361.6	2337.5	2357.1	2354.9
10°	2348.5	2344.7	2319.6	2339.3	2338.1
12.5°	2326.5	2322.7	2297.5	2317.3	2317.0
15°	2288.1	2282.9	2260.5	2280.2	2278.9
17.5°	2242.1	2236.2	2214.0	2229.5	2232.1
20°	2205.3	2201.5	2180.4	2194.9	2197.4
22.5°	2167.5	2162.5	2140.3	2157.0	2159.6
25°	2102.8	2098.9	2080.4	2092.4	2097.6
27.5°	2031.8	2031.8	2014.8	2023.2	2026.3
30°	1984.5	1984.5	1967.4	1972.8	1978.0
32.5°	1934.1	1929.9	1913.8	1918.1	1923.3
35°	1850.5	1849.2	1834.7	1834.8	1836.0
37.5°	1764.0	1760.4	1744.6	1745.7	1751.9
40°	1702.0	1699.4	1683.6	1683.7	1688.8
42.5°	1638.9	1636.3	1622.5	1620.5	1622.5
45°	1541.7	1537.7	1524.5	1522.0	1527.2
47.5°	1438.1	1439.1	1423.3	1419.7	1422.6
50°	1370.8	1370.8	1355.0	1347.2	1351.0
52.5°	1300.3	1298.2	1282.4	1273.7	1282.7
55°	1192.0	1188.1	1175.0	1165.8	1172.3
57.5°	1081.1	1075.1	1061.9	1052.0	1055.6
60°	1005.4	996.4	983.0	975.2	977.8
62.5°	926.6	921.7	907.4	895.4	901.0
65°	805.6	800.5	788.5	783.1	778.1
67.5°	687.1	683.7	670.2	664.7	661.3
70°	607.2	600.7	591.4	584.8	583.5
72.5°	529.4	522.0	512.5	507.0	503.6
75°	408.8	408.8	399.5	391.5	387.7
77.5°	293.8	294.9	287.3	284.6	282.9
80°	223.4	223.4	216.9	214.3	215.6
82.5°	156.2	159.2	156.9	153.2	151.4
85°	67.0	76.0	76.2	77.5	76.2
87.5°	11.6	18.8	20.0	17.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)