

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: P520165

Luminaire Tested: **SQ4-F-0U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520165
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

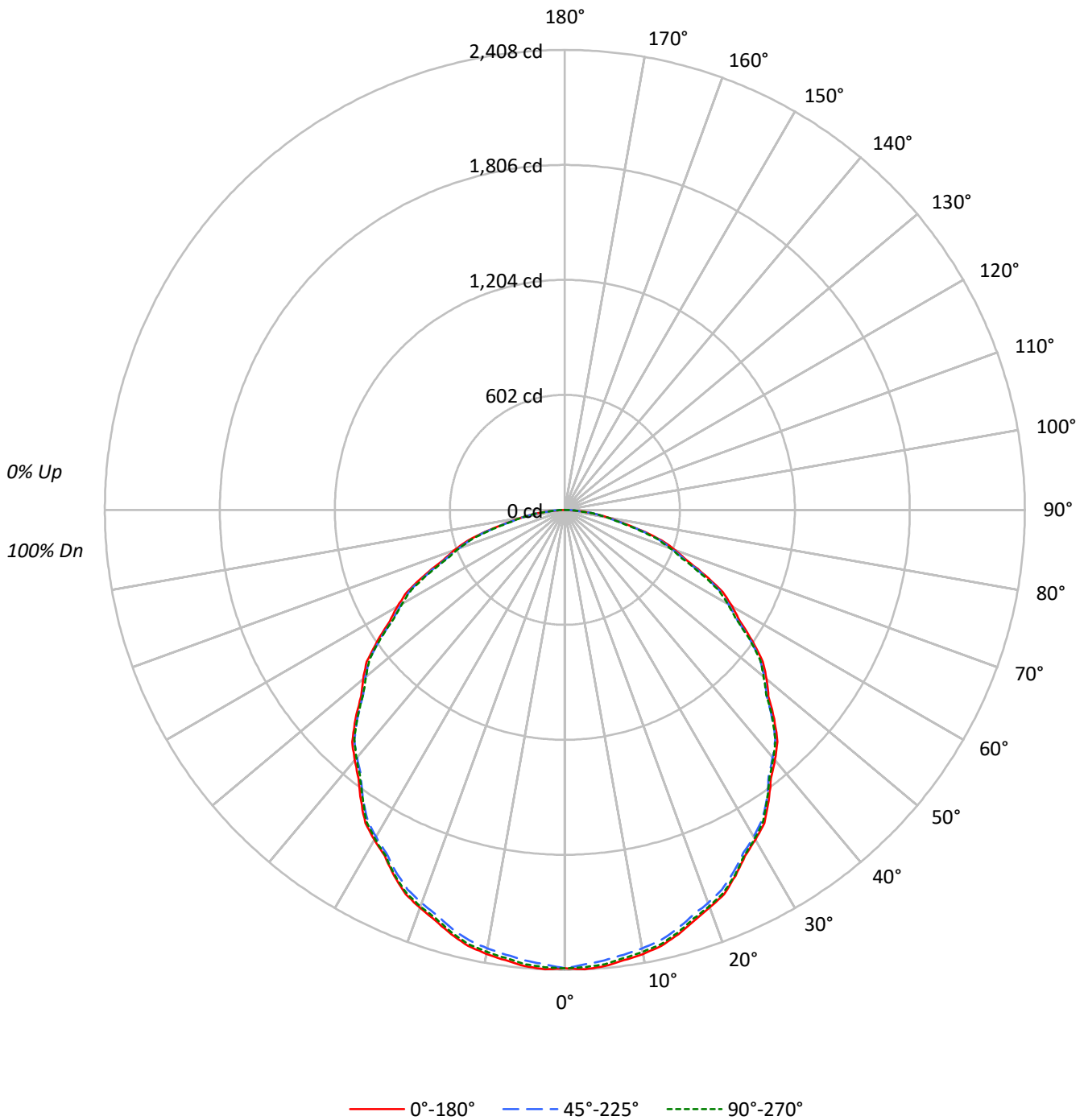
Lumens per Lamp: N/A
Luminaire Lumens: 6548.4 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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: P520165
CATALOG NUMBER: SQ4-F-0U-125D-935-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P520165

CATALOG NUMBER: SQ4-F-0U-125D-935-1D-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°	14763	14763	14763
5°	14812	14624	14746
10°	14744	14562	14677
15°	14645	14468	14586
20°	14509	14344	14457
25°	14344	14192	14308
30°	14166	14045	14119
35°	13966	13847	13857
40°	13735	13587	13629
45°	13478	13329	13352
50°	13184	13032	12994
55°	12848	12665	12636
60°	12432	12155	12090
65°	11784	11536	11381
70°	10974	10690	10547
75°	9763	9544	9261
80°	7956	7722	7672
85°	4757	5406	5406



TEST NUMBER: P520165
 CATALOG NUMBER: SQ4-F-0U-125D-935-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	3.5
10°-20°	645.0	9.8
20°-30°	969.0	14.8
30°-40°	1156.2	17.7
40°-50°	1185.2	18.1
50°-60°	1056.4	16.1
60°-70°	786.4	12.0
70°-80°	426.0	6.5
80°-90°	97.8	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°	1840.4	28.1
0°-40°	2996.7	45.8
0°-60°	5238.2	80.0
0°-90°	6548.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6548.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2399	2395	2368	2390	2388	228
15°	2300	2295	2272	2292	2291	648
25°	2114	2110	2091	2103	2108	973
35°	1860	1859	1844	1844	1845	1163
45°	1550	1546	1532	1530	1535	1194
55°	1198	1194	1181	1172	1178	1070
65°	810	804	793	787	782	802
75°	411	411	402	394	390	436
85°	67	76	77	78	77	95
90°	0	0	0	0	0	



TEST NUMBER: P520165

CATALOG NUMBER: SQ4-F-0U-125D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2400.2	2400.2	2400.2	2400.2	2400.2
2.5°	2407.6	2403.5	2382.2	2400.1	2397.0
5°	2398.9	2394.9	2368.5	2389.6	2388.3
7.5°	2378.5	2373.6	2349.4	2369.2	2366.9
10°	2360.6	2356.6	2331.5	2351.3	2349.9
12.5°	2338.4	2334.4	2309.3	2329.1	2328.9
15°	2299.8	2294.6	2272.0	2291.9	2290.6
17.5°	2253.6	2247.6	2225.3	2240.9	2243.5
20°	2216.6	2212.7	2191.4	2206.0	2208.7
22.5°	2178.6	2173.6	2151.3	2168.0	2170.5
25°	2113.5	2109.6	2091.1	2103.0	2108.2
27.5°	2042.2	2042.2	2025.0	2033.5	2036.7
30°	1994.6	1994.6	1977.5	1982.8	1988.0
32.5°	1943.9	1939.8	1923.6	1927.9	1933.1
35°	1859.9	1858.6	1844.1	1844.1	1845.4
37.5°	1772.9	1769.4	1753.5	1754.6	1760.8
40°	1710.6	1708.1	1692.2	1692.3	1697.4
42.5°	1647.3	1644.6	1630.9	1628.8	1630.9
45°	1549.5	1545.6	1532.3	1529.8	1535.0
47.5°	1445.4	1446.4	1430.6	1426.9	1429.8
50°	1377.8	1377.8	1361.9	1354.1	1357.9
52.5°	1306.9	1304.9	1289.0	1280.2	1289.3
55°	1198.1	1194.2	1181.0	1171.8	1178.3
57.5°	1086.6	1080.7	1067.3	1057.4	1061.0
60°	1010.6	1001.5	988.1	980.2	982.8
62.5°	931.3	926.4	912.0	900.0	905.7
65°	809.7	804.5	792.6	787.2	782.0
67.5°	690.6	687.3	673.7	668.1	664.7
70°	610.2	603.9	594.4	587.8	586.5
72.5°	532.1	524.6	515.2	509.6	506.2
75°	410.8	410.8	401.6	393.5	389.7
77.5°	295.3	296.4	288.8	286.1	284.3
80°	224.6	224.6	218.0	215.4	216.6
82.5°	156.9	160.0	157.7	154.0	152.1
85°	67.4	76.4	76.6	77.9	76.6
87.5°	11.7	18.9	20.1	17.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)