

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: P520157

Luminaire Tested: **SQ4-F-0U-125D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520157
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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

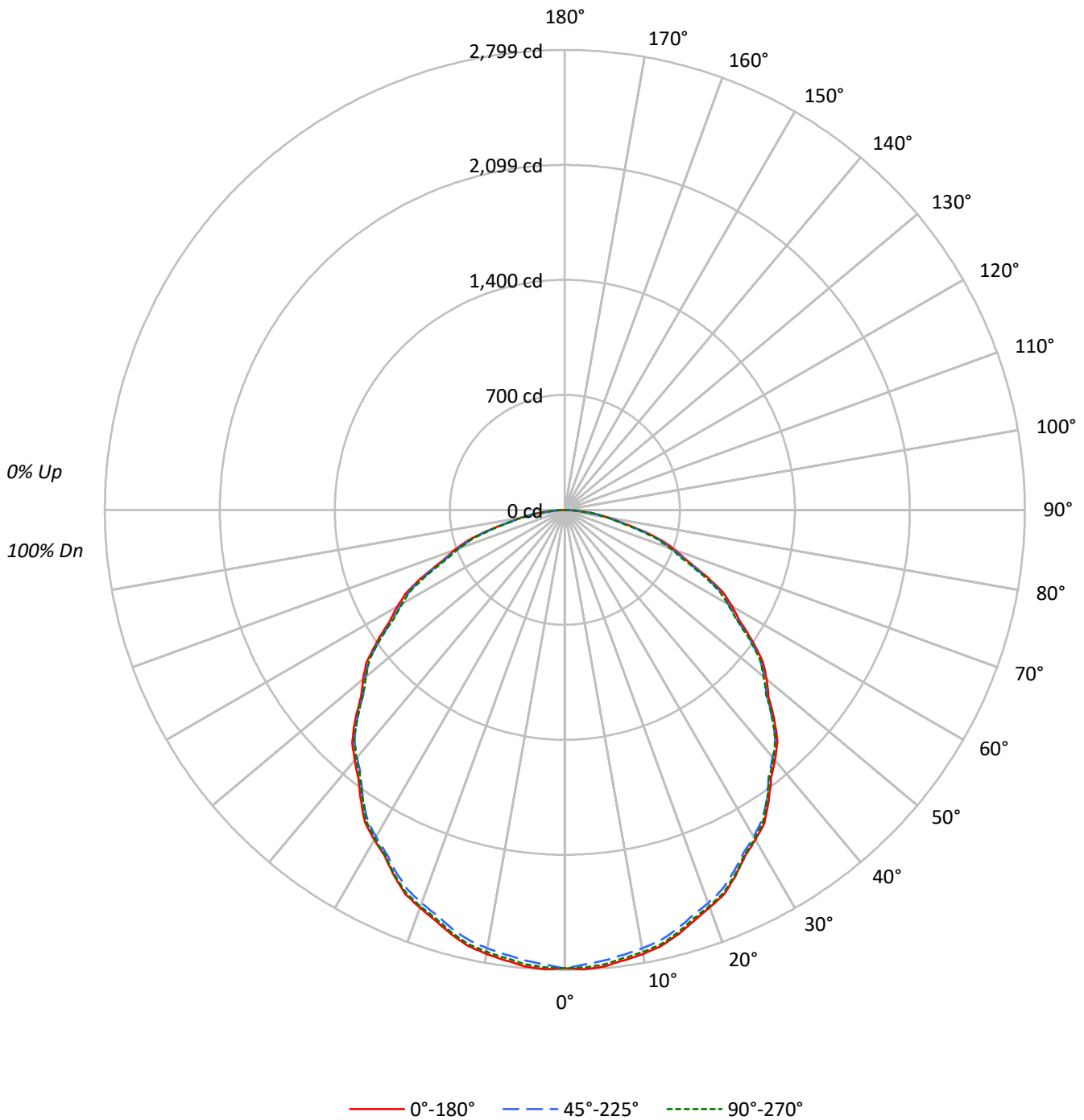
Lumens per Lamp: N/A
Luminaire Lumens: 7612.3 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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



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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	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°	17161	17161	17161
5°	17218	17000	17142
10°	17139	16927	17062
15°	17024	16819	16955
20°	16866	16675	16805
25°	16674	16497	16633
30°	16468	16327	16413
35°	16235	16096	16108
40°	15966	15794	15843
45°	15668	15495	15521
50°	15326	15150	15106
55°	14936	14721	14689
60°	14451	14130	14053
65°	13701	13410	13230
70°	12759	12427	12261
75°	11350	11093	10765
80°	9248	8976	8923
85°	5526	6288	6288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	3.5
10°-20°	749.8	9.8
20°-30°	1126.4	14.8
30°-40°	1344.1	17.7
40°-50°	1377.7	18.1
50°-60°	1228.0	16.1
60°-70°	914.1	12.0
70°-80°	495.3	6.5
80°-90°	113.7	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°	2139.5	28.1
0°-40°	3483.5	45.8
0°-60°	6089.2	80.0
0°-90°	7612.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7612.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2790	2790	2790	2790	2790	
5°	2789	2784	2753	2778	2776	265
15°	2674	2668	2641	2664	2663	754
25°	2457	2452	2431	2445	2451	1131
35°	2162	2161	2144	2144	2145	1352
45°	1801	1797	1781	1778	1784	1388
55°	1393	1388	1373	1362	1370	1244
65°	941	935	921	915	909	932
75°	478	478	467	458	453	507
85°	78	89	89	91	89	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2790.1	2790.1	2790.1	2790.1	2790.1
2.5°	2798.7	2794.0	2769.2	2790.0	2786.5
5°	2788.6	2784.1	2753.3	2777.8	2776.3
7.5°	2765.0	2759.2	2731.1	2754.1	2751.4
10°	2744.1	2739.5	2710.2	2733.3	2731.8
12.5°	2718.3	2713.8	2684.5	2707.5	2707.2
15°	2673.5	2667.5	2641.2	2664.2	2662.7
17.5°	2619.6	2612.7	2586.8	2605.0	2608.0
20°	2576.7	2572.2	2547.5	2564.5	2567.4
22.5°	2532.5	2526.8	2500.9	2520.2	2523.3
25°	2456.9	2452.4	2430.8	2444.8	2450.8
27.5°	2374.0	2374.0	2354.0	2363.9	2367.6
30°	2318.7	2318.7	2298.8	2305.0	2311.0
32.5°	2259.7	2255.0	2236.1	2241.2	2247.2
35°	2162.1	2160.6	2143.7	2143.7	2145.2
37.5°	2061.1	2056.8	2038.3	2039.7	2046.9
40°	1988.5	1985.6	1967.0	1967.2	1973.2
42.5°	1914.8	1911.9	1895.8	1893.5	1895.8
45°	1801.2	1796.8	1781.3	1778.3	1784.3
47.5°	1680.2	1681.4	1663.0	1658.8	1662.1
50°	1601.6	1601.6	1583.2	1574.1	1578.6
52.5°	1519.3	1516.9	1498.4	1488.2	1498.7
55°	1392.8	1388.2	1372.8	1362.3	1369.8
57.5°	1263.1	1256.3	1240.7	1229.2	1233.3
60°	1174.7	1164.2	1148.6	1139.5	1142.4
62.5°	1082.5	1076.9	1060.1	1046.2	1052.7
65°	941.4	935.3	921.4	915.1	909.0
67.5°	802.8	798.9	783.1	776.6	772.7
70°	709.5	702.0	691.0	683.3	681.8
72.5°	618.5	609.8	598.9	592.3	588.4
75°	477.6	477.6	466.8	457.5	453.0
77.5°	343.4	344.6	335.7	332.5	330.4
80°	261.1	261.1	253.4	250.3	251.9
82.5°	182.4	186.0	183.3	179.0	176.9
85°	78.3	88.8	89.1	90.6	89.1
87.5°	13.5	21.9	23.3	20.9	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)