

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: P520055

Luminaire Tested: **SQ4-F-075U-125D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520055  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-125D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

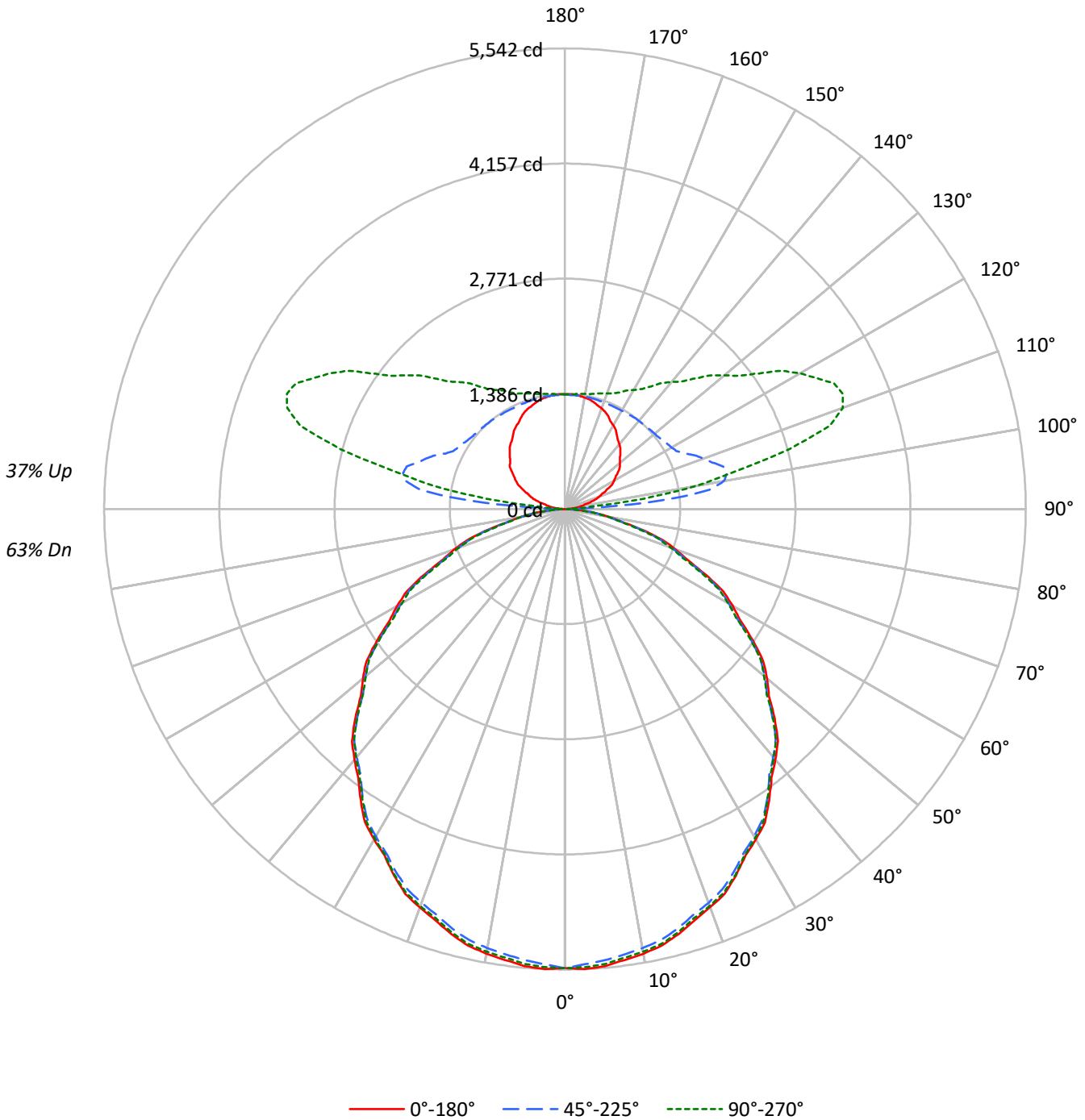
Lumens per Lamp: N/A  
Luminaire Lumens: 24057.8 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 194.1  
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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57	53
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	53	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	54	49	46	47	43	41	37
4	76	65	57	51	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	34	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24	21
8	55	43	35	29	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	24	45	34	27	23	31	25	21	27	23	19	24	20	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16991	16991	16991
5°	17046	16830	16971
10°	16968	16759	16892
15°	16854	16651	16786
20°	16698	16509	16638
25°	16508	16333	16467
30°	16304	16164	16250
35°	16073	15936	15947
40°	15808	15637	15686
45°	15512	15340	15366
50°	15173	14998	14955
55°	14787	14575	14542
60°	14307	13989	13914
65°	13564	13275	13099
70°	12631	12303	12139
75°	11236	10983	10659
80°	9155	8885	8832
85°	5473	6224	6224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.3	2.2
10°-20°	1484.6	6.2
20°-30°	2230.4	9.3
30°-40°	2661.4	11.1
40°-50°	2728.0	11.3
50°-60°	2431.5	10.1
60°-70°	1810.1	7.5
70°-80°	980.6	4.1
80°-90°	228.7	1.0
90°-100°	650.2	2.7
100°-110°	1789.0	7.4
110°-120°	1846.5	7.7
120°-130°	1479.4	6.1
130°-140°	1162.0	4.8
140°-150°	890.5	3.7
150°-160°	640.2	2.7
160°-170°	391.5	1.6
170°-180°	132.0	0.5
0°-30°	4236.3	17.6
0°-40°	6897.7	28.7
0°-60°	12057.2	50.1
0°-90°	15076.5	62.7
90°-120°	4285.7	17.8
90°-150°	7817.7	32.5
90°-180°	8981.0	37.3
0°-180°	24057.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5525	5525	5525	5525	5525	
5°	5522	5513	5452	5500	5497	524
15°	5294	5282	5230	5275	5272	1492
25°	4865	4856	4813	4841	4853	2240
35°	4281	4278	4245	4245	4248	2677
45°	3567	3558	3527	3521	3533	2748
55°	2758	2749	2718	2697	2712	2463
65°	1864	1852	1824	1812	1800	1846
75°	946	946	924	906	897	1004
85°	155	176	176	179	176	214
90°	3	12	20	26	26	10
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1388	131
180°	1379	1379	1379	1379	1379	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5524.7	5524.7	5524.7	5524.7	5524.7
2.5°	5541.7	5532.2	5483.3	5524.5	5517.4
5°	5521.6	5512.7	5451.7	5500.3	5497.3
7.5°	5474.8	5463.5	5407.9	5453.4	5448.1
10°	5433.5	5424.5	5366.6	5412.1	5409.1
12.5°	5382.4	5373.5	5315.5	5361.1	5360.5
15°	5293.6	5281.7	5229.8	5275.3	5272.3
17.5°	5187.2	5173.5	5122.1	5158.1	5164.1
20°	5102.0	5093.1	5044.3	5077.8	5083.8
22.5°	5014.5	5003.1	4951.8	4990.3	4996.2
25°	4864.9	4856.0	4813.2	4840.9	4852.7
27.5°	4700.7	4700.7	4661.2	4680.8	4687.9
30°	4591.2	4591.2	4551.7	4564.2	4576.0
32.5°	4474.5	4465.0	4427.7	4437.7	4449.5
35°	4281.1	4278.2	4244.6	4244.7	4247.7
37.5°	4081.0	4072.7	4036.0	4038.8	4053.1
40°	3937.5	3931.5	3894.9	3895.3	3907.1
42.5°	3791.6	3785.6	3753.9	3749.1	3753.9
45°	3566.6	3557.6	3527.0	3521.3	3533.1
47.5°	3327.0	3329.3	3292.9	3284.5	3291.1
50°	3171.3	3171.3	3134.8	3116.8	3125.7
52.5°	3008.3	3003.6	2967.0	2946.8	2967.6
55°	2757.8	2748.9	2718.3	2697.3	2712.2
57.5°	2501.2	2487.5	2456.8	2433.9	2442.2
60°	2326.0	2305.2	2274.3	2256.2	2262.2
62.5°	2143.6	2132.3	2099.2	2071.5	2084.6
65°	1863.9	1852.0	1824.3	1811.9	1800.0
67.5°	1589.6	1581.9	1550.7	1537.7	1530.0
70°	1404.7	1389.8	1368.2	1352.9	1350.0
72.5°	1224.7	1207.5	1185.8	1172.8	1165.1
75°	945.6	945.6	924.3	905.9	897.0
77.5°	679.9	682.2	664.7	658.5	654.3
80°	516.9	516.9	501.7	495.7	498.7
82.5°	361.2	368.3	363.0	354.4	350.3
85°	155.1	175.8	176.4	179.3	176.4
87.5°	27.4	45.8	50.5	46.7	42.0
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	355.0	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.7
105°	319.7	491.8	1971.2	3002.0	2801.3
107.5°	391.3	548.4	1859.1	3279.6	3339.3
110°	442.9	586.4	1774.6	3348.7	3555.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	489.8	628.6	1690.2	3304.2	3618.6
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.5	1511.8	2929.6	3409.6
120°	683.4	792.5	1481.4	2765.6	3261.8
122.5°	723.3	832.4	1460.2	2621.9	3092.9
125°	780.2	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.0	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.4	2499.2
132.5°	895.3	1001.4	1401.0	2081.2	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.8	1106.7	1384.5	1802.5	1994.7
142.5°	1046.0	1128.1	1379.8	1745.6	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.2	1651.5
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1231.9	1272.1	1364.0	1502.8	1545.8
157.5°	1264.2	1297.0	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.9	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.1	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.7	1381.5	1372.8	1390.3	1387.5
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.7	1378.7	1378.7	1378.7	1378.7

(END OF REPORT)