

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: P520073

Luminaire Tested: **SQ4-F-075U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520073
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

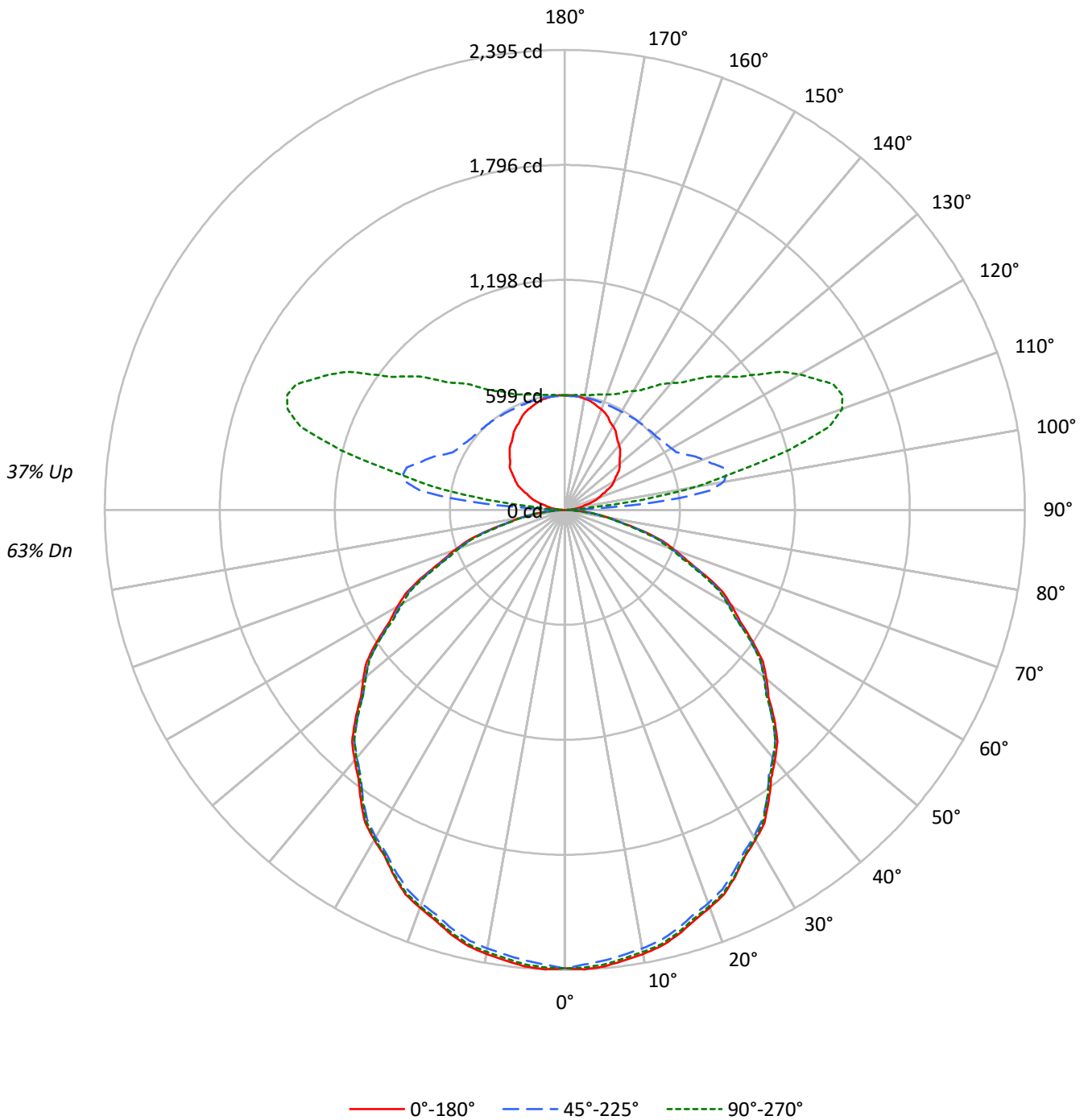
Lumens per Lamp: N/A
Luminaire Lumens: 10398.7 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 93.6
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°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	2.2
10°-20°	641.7	6.2
20°-30°	964.1	9.3
30°-40°	1150.4	11.1
40°-50°	1179.1	11.3
50°-60°	1051.0	10.1
60°-70°	782.4	7.5
70°-80°	423.9	4.1
80°-90°	98.8	1.0
90°-100°	281.0	2.7
100°-110°	773.3	7.4
110°-120°	798.1	7.7
120°-130°	639.5	6.1
130°-140°	502.3	4.8
140°-150°	384.9	3.7
150°-160°	276.7	2.7
160°-170°	169.2	1.6
170°-180°	57.0	0.5
0°-30°	1831.1	17.6
0°-40°	2981.5	28.7
0°-60°	5211.6	50.1
0°-90°	6516.6	62.7
90°-120°	1852.5	17.8
90°-150°	3379.1	32.5
90°-180°	3882.0	37.3
0°-180°	10398.7	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	93
90°	1	5	9	11	11	4
95°	42	153	497	212	136	44
105°	138	212	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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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°	11.9	19.8	21.8	20.2	18.1
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.7	129.6	49.8	40.8
95°	41.9	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.4	584.4	412.3
100°	87.4	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.7	909.4
105°	138.2	212.5	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.4	253.4	767.0	1447.4	1536.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.8	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.9	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.5	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.4	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.5	1080.2
132.5°	386.9	432.8	605.6	899.6	1029.6
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.1	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.5	754.5	825.6
145°	470.4	502.7	593.3	722.7	778.5
147.5°	489.9	517.7	591.9	694.6	739.2
150°	502.1	526.9	590.9	679.1	713.8
152.5°	513.2	536.0	589.8	665.8	694.6
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.8	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.2	616.3	620.0
167.5°	583.3	588.9	593.3	610.6	611.6
170°	588.3	592.1	593.3	608.6	608.6
172.5°	592.3	594.1	593.3	605.6	604.6
175°	595.9	597.1	593.3	601.0	599.7
177.5°	596.9	596.9	592.8	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)