

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: P564125

Luminaire Tested: **SQ4-PR1-075U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564125
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18710.8 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

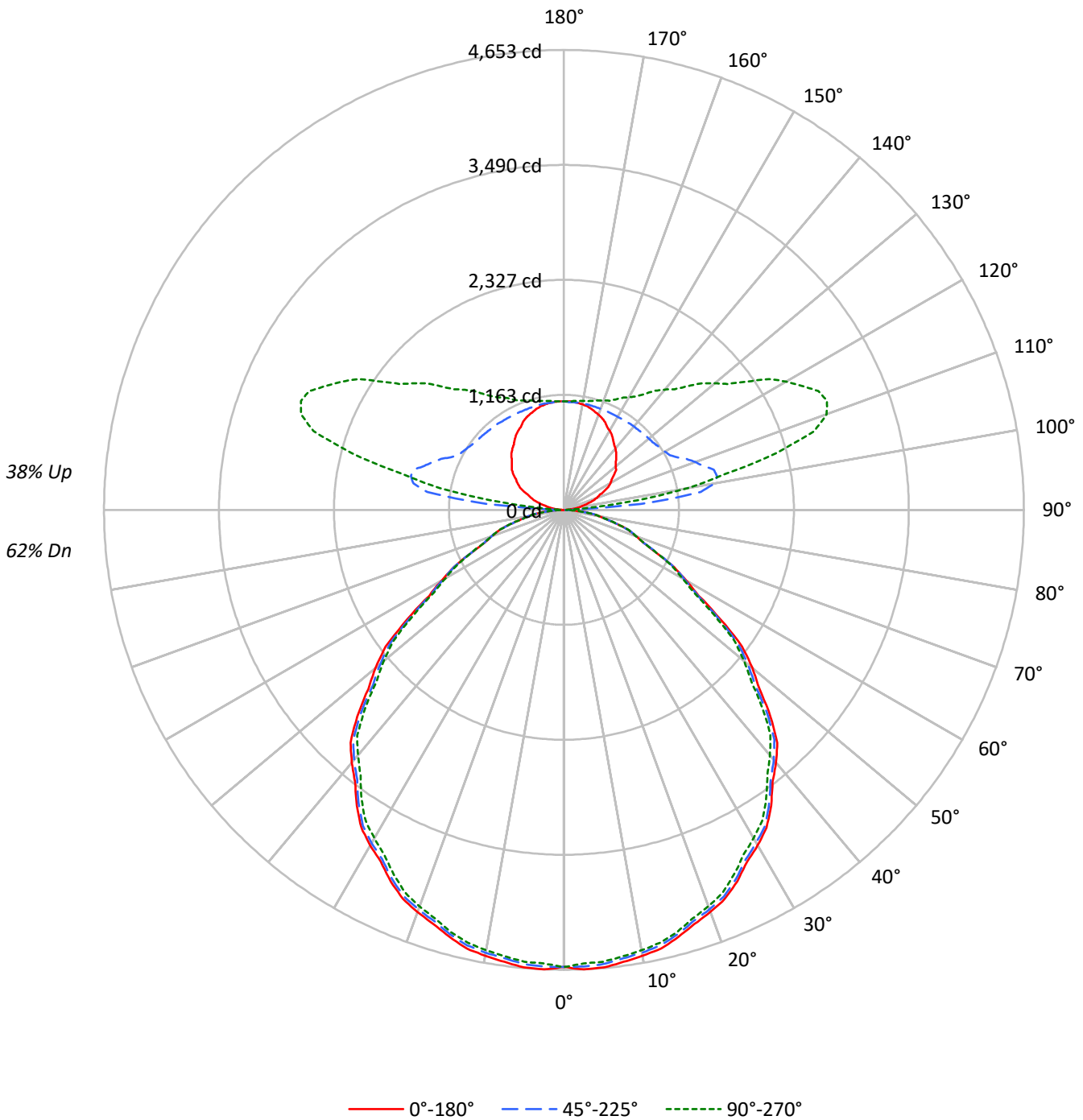
Input Watts (W): 194.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62	62	62	62	
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53	53	53	53	
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45	45	45	45	
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38	38	38	38	
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33	33	33	33	
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29	29	29	29	
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26	26	26	26	
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23	23	23	23	
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20	20	20	20	
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18	18	18	18	
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17	17	17	17	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13400
40°	13401	13257	13017
45°	12855	12629	12370
50°	11892	11606	11377
55°	10380	10145	9931
60°	8746	8673	8502
65°	7565	7594	7537
70°	6949	6984	6984
75°	6673	6673	6721
80°	6278	6349	6278
85°	5060	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	2.3
10°-20°	1251.2	6.7
20°-30°	1887.3	10.1
30°-40°	2248.7	12.0
40°-50°	2217.0	11.8
50°-60°	1694.3	9.1
60°-70°	1048.5	5.6
70°-80°	595.5	3.2
80°-90°	183.9	1.0
90°-100°	517.4	2.8
100°-110°	1423.6	7.6
110°-120°	1469.4	7.9
120°-130°	1177.3	6.3
130°-140°	924.7	4.9
140°-150°	708.6	3.8
150°-160°	509.5	2.7
160°-170°	311.5	1.7
170°-180°	105.0	0.6
0°-30°	3575.8	19.1
0°-40°	5824.5	31.1
0°-60°	9735.9	52.0
0°-90°	11563.9	61.8
90°-120°	3410.4	18.2
90°-150°	6220.9	33.2
90°-180°	7147.0	38.2
0°-180°	18710.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4625	4625	4625	4625	4625	
5°	4648	4598	4613	4597	4589	441
15°	4473	4426	4445	4429	4422	1262
25°	4147	4096	4119	4075	4071	1908
35°	3653	3610	3621	3573	3569	2280
45°	2956	2917	2904	2852	2844	2264
55°	1936	1905	1892	1860	1852	1735
65°	1040	1032	1044	1036	1036	1053
75°	562	562	562	566	566	593
85°	143	151	159	159	159	167
90°	2	9	16	21	21	11
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4624.6	4624.6	4624.6	4624.6	4624.6
2.5°	4653.3	4612.8	4624.6	4614.6	4592.8
5°	4648.5	4597.9	4612.7	4596.6	4588.8
7.5°	4612.7	4562.8	4577.6	4561.6	4556.9
10°	4580.8	4534.1	4549.0	4532.9	4525.1
12.5°	4545.8	4495.9	4513.9	4494.6	4486.8
15°	4473.3	4426.5	4445.4	4429.3	4421.5
17.5°	4393.6	4343.8	4362.5	4344.0	4333.9
20°	4329.9	4283.1	4302.0	4274.0	4270.1
22.5°	4259.8	4213.0	4231.9	4194.4	4193.6
25°	4146.6	4096.0	4118.8	4074.9	4071.0
27.5°	4012.0	3965.3	3984.1	3939.4	3934.7
30°	3919.6	3872.9	3891.7	3843.7	3835.9
32.5°	3814.4	3770.8	3786.6	3738.6	3734.0
35°	3652.7	3609.9	3620.8	3573.0	3569.1
37.5°	3468.7	3429.7	3436.0	3383.4	3379.5
40°	3338.0	3299.1	3302.2	3246.3	3242.4
42.5°	3194.6	3155.7	3152.4	3096.6	3092.7
45°	2955.6	2916.7	2903.8	2851.9	2844.1
47.5°	2683.2	2644.2	2620.2	2577.9	2572.4
50°	2485.6	2446.6	2425.8	2389.7	2378.0
52.5°	2272.1	2233.1	2215.5	2182.6	2170.9
55°	1935.9	1904.7	1892.1	1860.0	1852.2
57.5°	1616.4	1595.4	1591.7	1560.6	1557.5
60°	1422.0	1410.4	1410.1	1382.2	1382.2
62.5°	1256.3	1247.8	1254.0	1235.6	1232.4
65°	1039.6	1031.9	1043.6	1035.7	1035.7
67.5°	868.4	868.4	875.5	872.3	872.3
70°	772.8	772.8	776.7	776.7	776.7
72.5°	686.7	683.6	693.9	693.8	690.7
75°	561.6	561.6	561.6	565.6	565.6
77.5°	437.4	438.1	441.4	440.5	437.4
80°	354.5	358.4	358.5	354.5	354.5
82.5°	271.7	275.6	275.6	274.8	271.7
85°	143.4	151.2	159.3	159.3	159.3
87.5°	41.9	55.7	67.0	67.9	64.7
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)