

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: P563393

Luminaire Tested: **SQ4-PP3-075U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563393
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16616.4 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

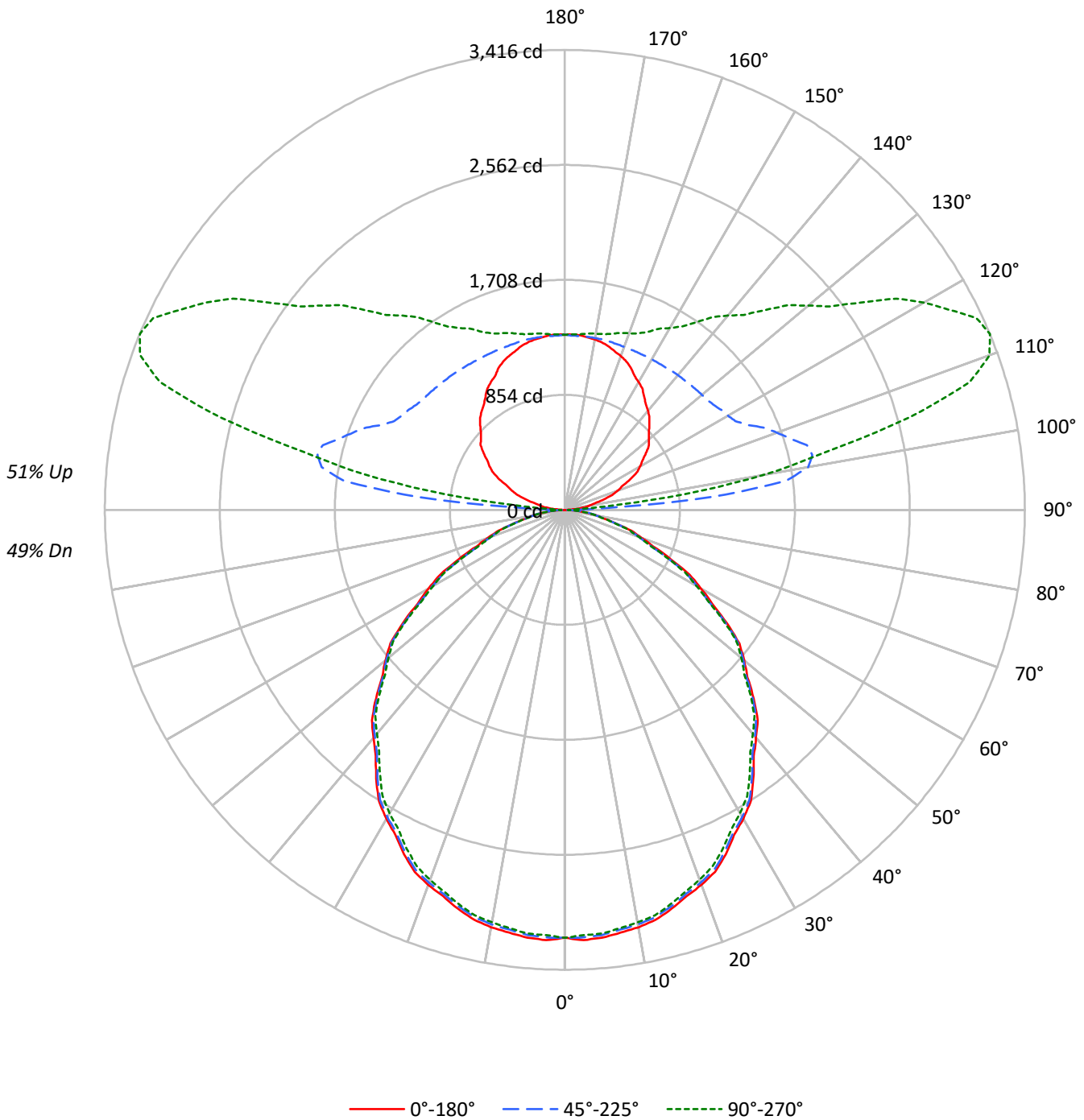
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9776	9776	9776
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9712	9659
20°	9701	9646	9574
25°	9586	9520	9425
30°	9408	9359	9240
35°	9162	9099	8985
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6325	6062	6041
70°	5461	5236	5236
75°	4701	4634	4569
80°	4144	4194	4095
85°	3243	3539	3539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.8
10°-20°	858.2	5.2
20°-30°	1285.5	7.7
30°-40°	1507.9	9.1
40°-50°	1512.6	9.1
50°-60°	1290.3	7.8
60°-70°	841.5	5.1
70°-80°	422.2	2.5
80°-90°	120.2	0.7
90°-100°	613.7	3.7
100°-110°	1688.6	10.2
110°-120°	1742.9	10.5
120°-130°	1396.4	8.4
130°-140°	1096.8	6.6
140°-150°	840.5	5.1
150°-160°	604.3	3.6
160°-170°	369.5	2.2
170°-180°	124.6	0.7
0°-30°	2444.4	14.7
0°-40°	3952.2	23.8
0°-60°	6755.1	40.7
0°-90°	8139.0	49.0
90°-120°	4045.3	24.3
90°-150°	7379.0	44.4
90°-180°	8477.0	51.0
0°-180°	16616.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3179	3179	3179	3179	3179	
5°	3190	3160	3170	3159	3159	303
15°	3067	3037	3050	3039	3034	865
25°	2825	2792	2805	2780	2778	1299
35°	2440	2416	2424	2396	2393	1524
45°	1984	1970	1970	1950	1950	1527
55°	1471	1466	1451	1443	1440	1307
65°	869	853	833	828	830	867
75°	396	396	390	387	384	429
85°	92	100	100	100	100	108
90°	3	11	19	25	25	9
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3198.8	3172.6	3178.7	3173.9	3160.9
5°	3189.8	3159.9	3170.3	3159.2	3159.2
7.5°	3168.1	3135.4	3145.8	3134.7	3134.1
10°	3148.1	3115.4	3125.8	3114.6	3111.8
12.5°	3119.1	3086.4	3099.0	3085.6	3085.1
15°	3067.3	3037.3	3050.5	3039.3	3033.8
17.5°	3008.8	2976.1	2992.0	2976.4	2974.2
20°	2964.2	2931.5	2947.5	2925.2	2925.2
22.5°	2910.7	2878.0	2896.2	2867.2	2867.2
25°	2824.9	2792.2	2805.4	2780.3	2777.5
27.5°	2722.9	2690.8	2704.5	2676.1	2675.6
30°	2649.4	2619.4	2635.4	2604.7	2602.0
32.5°	2569.1	2541.4	2553.0	2522.3	2519.6
35°	2440.4	2415.9	2423.7	2395.8	2393.1
37.5°	2305.0	2280.0	2288.9	2264.9	2263.8
40°	2209.2	2192.9	2195.3	2175.7	2170.2
42.5°	2120.1	2101.5	2103.9	2084.4	2083.3
45°	1983.6	1969.9	1969.6	1950.1	1950.1
47.5°	1838.7	1828.3	1825.3	1809.1	1808.6
50°	1738.4	1730.2	1727.2	1713.3	1710.5
52.5°	1633.6	1629.8	1620.3	1608.6	1608.0
55°	1470.9	1465.5	1451.4	1443.0	1440.3
57.5°	1294.3	1283.4	1267.6	1255.4	1257.5
60°	1167.3	1156.4	1133.9	1128.3	1128.3
62.5°	1044.7	1031.6	1009.0	1001.3	1005.7
65°	869.2	852.9	833.0	827.5	830.2
67.5°	709.8	695.1	673.6	673.6	671.4
70°	607.3	599.2	582.3	582.3	582.3
72.5°	515.9	512.1	499.8	499.7	497.6
75°	395.6	395.6	390.0	387.2	384.5
77.5°	296.4	297.5	294.7	291.8	286.9
80°	234.0	239.5	236.8	234.0	231.2
82.5°	176.1	181.5	181.1	176.1	175.5
85°	91.9	100.1	100.3	100.3	100.3
87.5°	25.1	35.4	39.5	40.7	42.9
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)