

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: P563417

Luminaire Tested: **SQ4-PP3-075U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563417
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-100D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

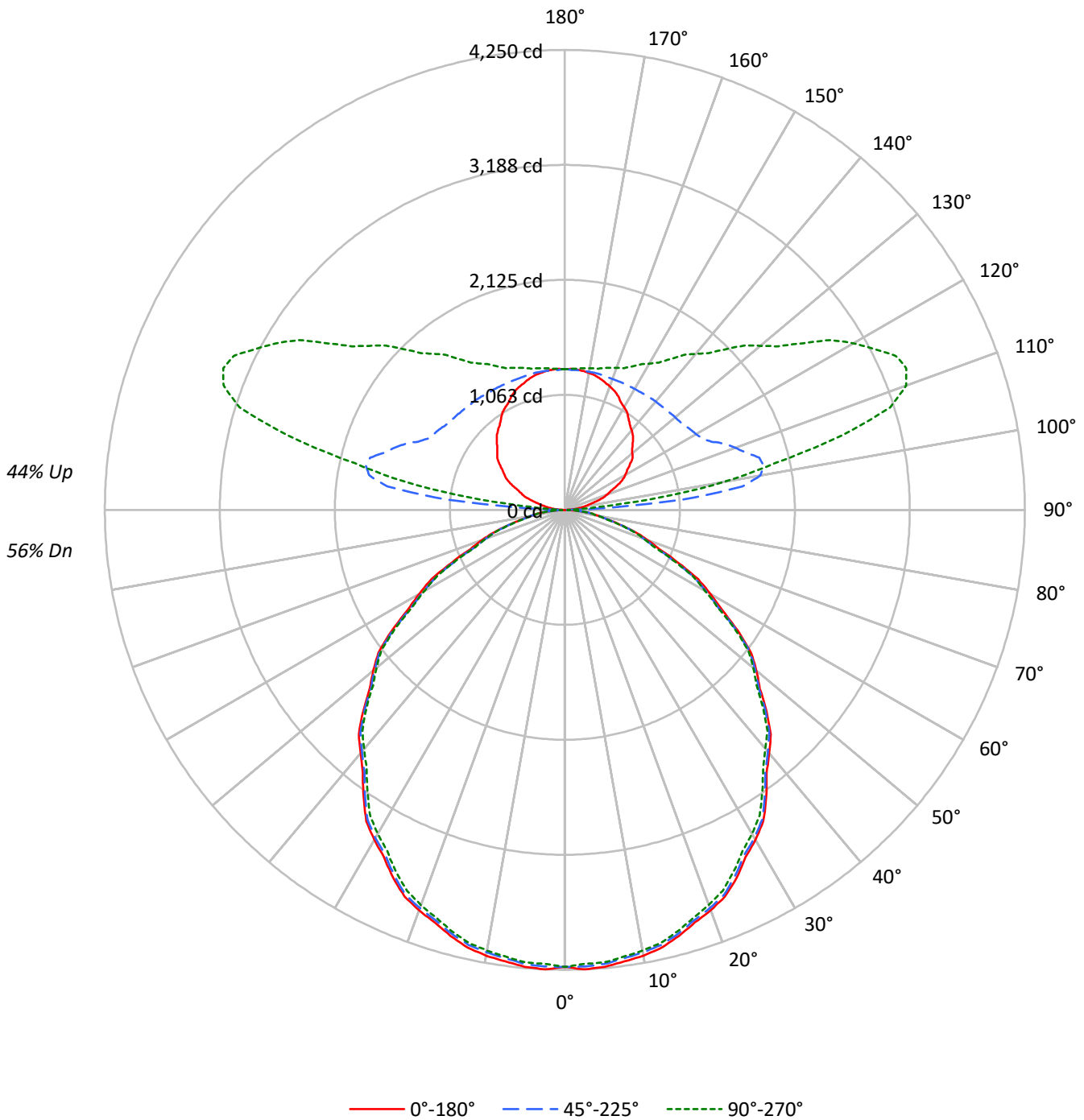
Lumens per Lamp: N/A
Luminaire Lumens: 19290.7 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 162.2
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13084	13004	12959
10°	13062	12970	12912
15°	12976	12905	12835
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8404	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5506	5572	5441
85°	4312	4704	4704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	2.1
10°-20°	1140.4	5.9
20°-30°	1708.1	8.9
30°-40°	2003.5	10.4
40°-50°	2009.8	10.4
50°-60°	1714.5	8.9
60°-70°	1118.1	5.8
70°-80°	561.0	2.9
80°-90°	158.6	0.8
90°-100°	613.7	3.2
100°-110°	1688.6	8.8
110°-120°	1742.9	9.0
120°-130°	1396.4	7.2
130°-140°	1096.8	5.7
140°-150°	840.5	4.4
150°-160°	604.3	3.1
160°-170°	369.5	1.9
170°-180°	124.6	0.6
0°-30°	3247.8	16.8
0°-40°	5251.3	27.2
0°-60°	8975.6	46.5
0°-90°	10813.2	56.1
90°-120°	4045.3	21.0
90°-150°	7379.0	38.3
90°-180°	8477.0	43.9
0°-180°	19290.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4238	4198	4212	4198	4198	402
15°	4076	4036	4053	4038	4031	1150
25°	3753	3710	3728	3694	3690	1726
35°	3243	3210	3220	3183	3180	2026
45°	2636	2618	2617	2591	2591	2029
55°	1954	1947	1928	1917	1914	1737
65°	1155	1133	1107	1100	1103	1153
75°	526	526	518	514	511	570
85°	122	133	133	133	133	144
90°	3	11	19	25	25	11
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°	4223.5	4223.5	4223.5	4223.5	4223.5
2.5°	4250.2	4215.4	4223.5	4217.2	4199.9
5°	4238.3	4198.5	4212.4	4197.6	4197.6
7.5°	4209.5	4166.0	4179.9	4165.0	4164.3
10°	4182.8	4139.4	4153.2	4138.3	4134.7
12.5°	4144.3	4100.9	4117.7	4099.9	4099.2
15°	4075.5	4035.7	4053.3	4038.3	4031.1
17.5°	3997.7	3954.3	3975.5	3954.7	3951.8
20°	3938.5	3895.1	3916.3	3886.7	3886.7
22.5°	3867.4	3824.0	3848.2	3809.7	3809.7
25°	3753.4	3710.0	3727.5	3694.1	3690.5
27.5°	3618.0	3575.2	3593.5	3555.8	3555.0
30°	3520.2	3480.4	3501.7	3460.9	3457.3
32.5°	3413.6	3376.7	3392.2	3351.4	3347.7
35°	3242.6	3210.0	3220.4	3183.3	3179.7
37.5°	3062.7	3029.4	3041.2	3009.4	3007.9
40°	2935.4	2913.7	2916.9	2890.8	2883.6
42.5°	2816.9	2792.3	2795.5	2769.5	2768.1
45°	2635.5	2617.5	2617.0	2591.1	2591.1
47.5°	2443.1	2429.3	2425.3	2403.8	2403.1
50°	2309.8	2298.9	2295.0	2276.4	2272.8
52.5°	2170.6	2165.6	2152.9	2137.3	2136.6
55°	1954.5	1947.2	1928.5	1917.4	1913.7
57.5°	1719.8	1705.3	1684.2	1668.0	1670.9
60°	1551.0	1536.5	1506.6	1499.2	1499.2
62.5°	1388.1	1370.7	1340.7	1330.5	1336.3
65°	1154.9	1133.2	1106.8	1099.5	1103.1
67.5°	943.2	923.6	895.1	895.0	892.1
70°	807.0	796.1	773.6	773.6	773.6
72.5°	685.5	680.5	664.1	664.0	661.1
75°	525.6	525.6	518.2	514.4	510.8
77.5°	393.9	395.3	391.6	387.8	381.3
80°	310.9	318.2	314.6	310.9	307.2
82.5°	233.9	241.2	240.6	233.9	233.2
85°	122.2	133.0	133.3	133.3	133.3
87.5°	33.1	46.3	51.3	52.4	55.3
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)