

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: P564113

Luminaire Tested: **SQ4-PR1-075U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564113
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-830-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

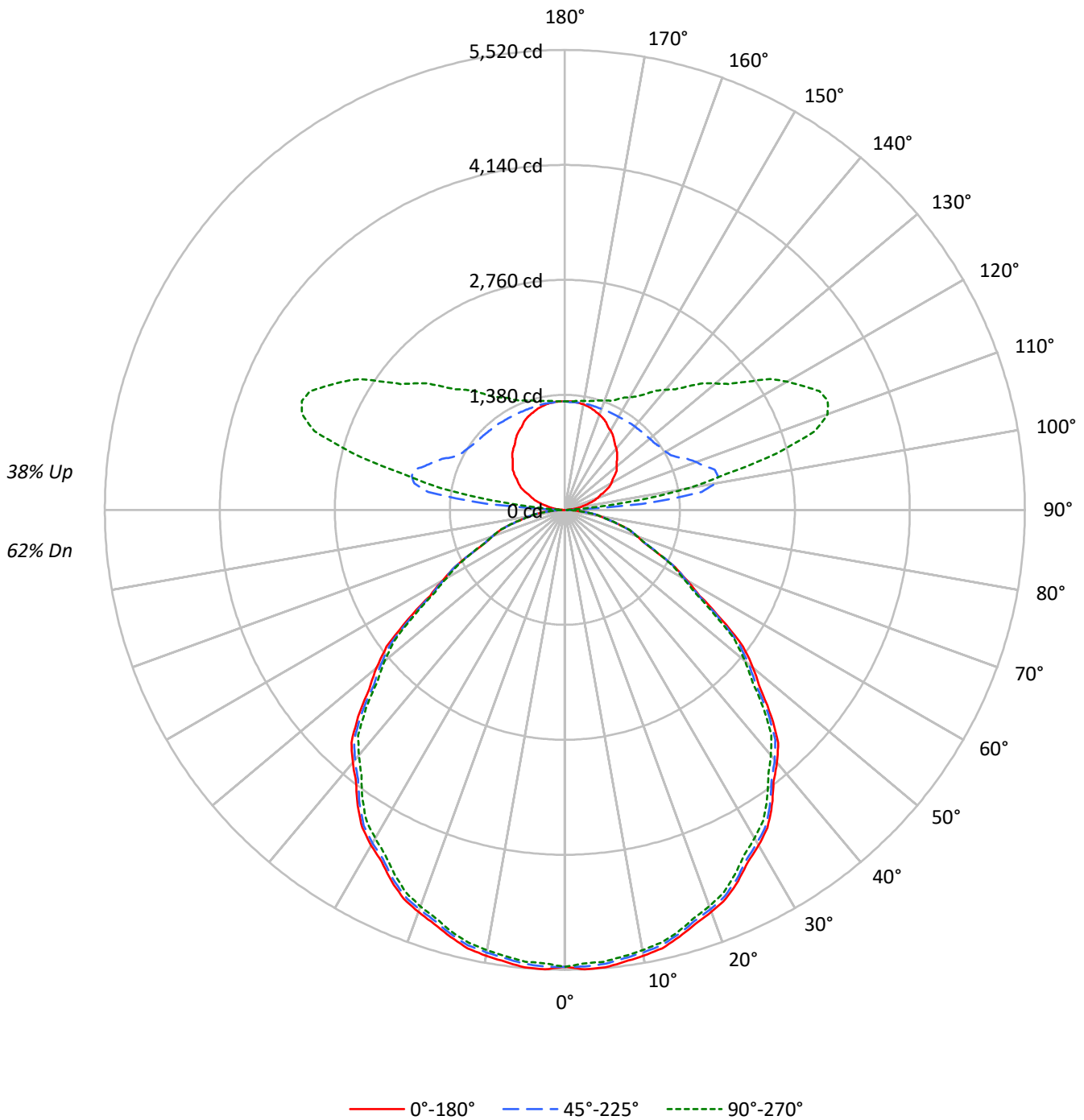
Lumens per Lamp: N/A
Luminaire Lumens: 22194.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17022	16891	16803
10°	16968	16850	16762
15°	16894	16788	16698
20°	16809	16701	16577
25°	16690	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14673
50°	14106	13767	13496
55°	12312	12033	11780
60°	10375	10288	10084
65°	8974	9008	8940
70°	8242	8284	8284
75°	7916	7916	7972
80°	7447	7531	7447
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.7	2.3
10°-20°	1484.2	6.7
20°-30°	2238.6	10.1
30°-40°	2667.3	12.0
40°-50°	2629.7	11.8
50°-60°	2009.8	9.1
60°-70°	1243.7	5.6
70°-80°	706.4	3.2
80°-90°	218.2	1.0
90°-100°	613.7	2.8
100°-110°	1688.6	7.6
110°-120°	1742.9	7.9
120°-130°	1396.4	6.3
130°-140°	1096.8	4.9
140°-150°	840.5	3.8
150°-160°	604.3	2.7
160°-170°	369.5	1.7
170°-180°	124.6	0.6
0°-30°	4241.5	19.1
0°-40°	6908.8	31.1
0°-60°	11548.3	52.0
0°-90°	13716.6	61.8
90°-120°	4045.3	18.2
90°-150°	7379.0	33.2
90°-180°	8477.0	38.2
0°-180°	22194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5486	5486	5486	5486	5486	
5°	5514	5454	5471	5452	5443	523
15°	5306	5251	5273	5254	5245	1497
25°	4919	4858	4886	4833	4829	2264
35°	4333	4282	4295	4238	4234	2704
45°	3506	3460	3444	3383	3374	2686
55°	2296	2259	2244	2206	2197	2058
65°	1233	1224	1238	1228	1228	1249
75°	666	666	666	671	671	704
85°	170	179	189	189	189	198
90°	3	11	19	25	25	13
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°	5485.6	5485.6	5485.6	5485.6	5485.6
2.5°	5519.6	5471.5	5485.6	5473.6	5447.8
5°	5513.9	5453.9	5471.4	5452.3	5443.0
7.5°	5471.4	5412.3	5429.8	5410.8	5405.2
10°	5433.6	5378.2	5395.8	5376.7	5367.4
12.5°	5392.0	5332.9	5354.2	5331.3	5322.1
15°	5306.0	5250.6	5272.9	5253.8	5244.6
17.5°	5211.5	5152.4	5174.7	5152.7	5140.7
20°	5135.9	5080.5	5102.9	5069.7	5065.1
22.5°	5052.8	4997.3	5019.7	4975.3	4974.3
25°	4918.6	4858.5	4885.5	4833.4	4828.8
27.5°	4758.9	4703.4	4725.8	4672.8	4667.2
30°	4649.3	4593.8	4616.2	4559.3	4550.0
32.5°	4524.5	4472.8	4491.5	4434.6	4429.1
35°	4332.7	4281.9	4294.9	4238.1	4233.5
37.5°	4114.4	4068.2	4075.7	4013.2	4008.6
40°	3959.4	3913.2	3916.9	3850.7	3846.0
42.5°	3789.3	3743.1	3739.3	3673.0	3668.4
45°	3505.8	3459.7	3444.4	3382.8	3373.6
47.5°	3182.7	3136.5	3108.0	3057.8	3051.3
50°	2948.3	2902.1	2877.4	2834.6	2820.7
52.5°	2695.1	2648.9	2628.0	2588.9	2575.1
55°	2296.3	2259.3	2244.3	2206.3	2197.1
57.5°	1917.3	1892.4	1888.1	1851.1	1847.4
60°	1686.8	1672.9	1672.6	1639.5	1639.5
62.5°	1490.2	1480.1	1487.4	1465.6	1461.9
65°	1233.2	1223.9	1237.9	1228.5	1228.5
67.5°	1030.0	1030.0	1038.5	1034.7	1034.7
70°	916.6	916.6	921.3	921.3	921.3
72.5°	814.6	810.9	823.1	823.0	819.3
75°	666.2	666.2	666.2	670.9	670.9
77.5°	518.8	519.7	523.5	522.5	518.8
80°	420.5	425.1	425.2	420.5	420.5
82.5°	322.2	326.9	327.0	325.9	322.2
85°	170.1	179.3	189.0	189.0	189.0
87.5°	49.7	66.1	79.5	80.5	76.8
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)