

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: P564101

Luminaire Tested: **SQ4-PR1-075U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564101
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-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

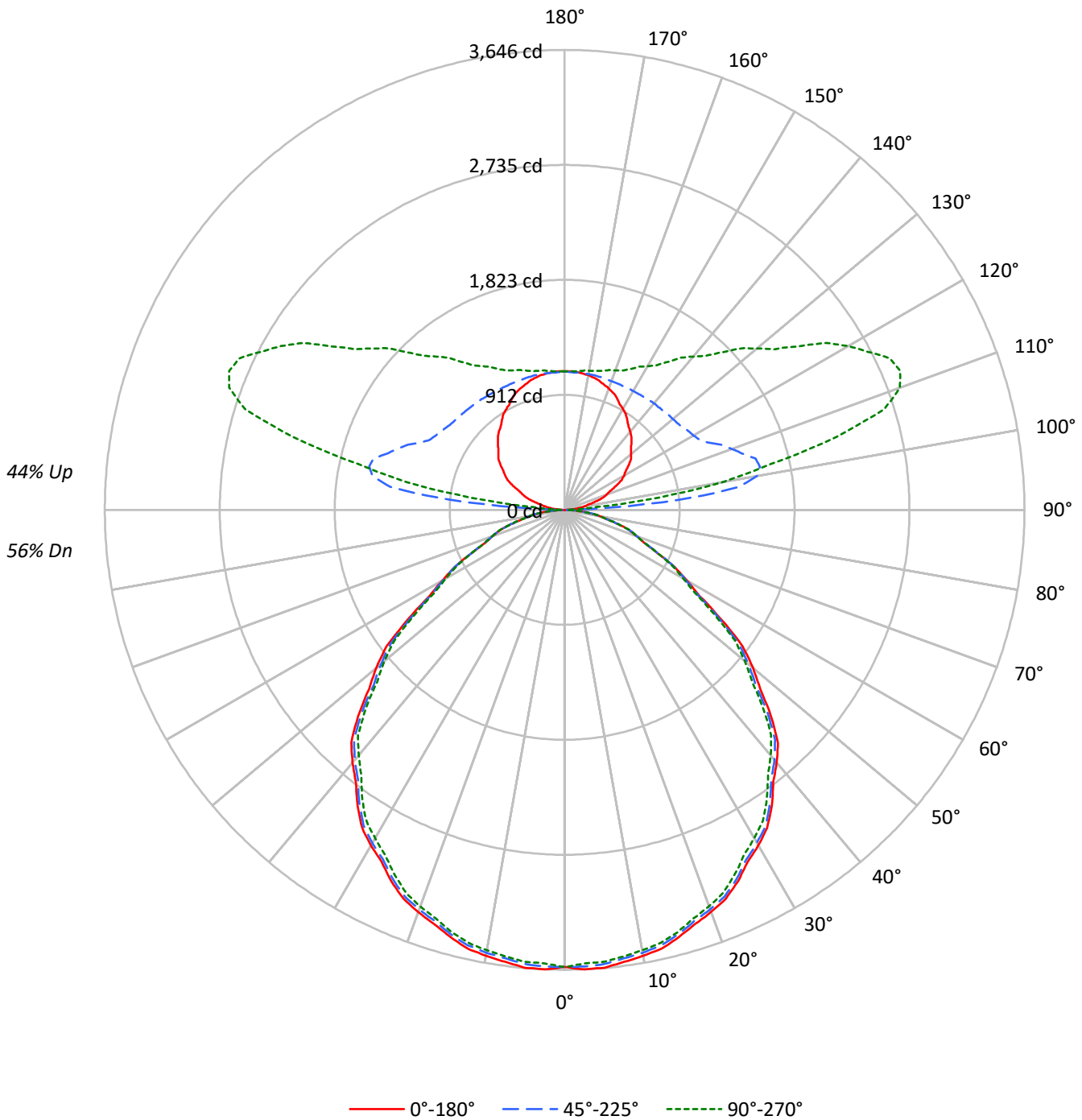
Lumens per Lamp: N/A
Luminaire Lumens: 16209.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11160	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10388	10200
45°	10073	9897	9693
50°	9319	9095	8916
55°	8134	7950	7783
60°	6854	6797	6662
65°	5929	5951	5906
70°	5445	5473	5473
75°	5229	5229	5266
80°	4920	4975	4920
85°	3966	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	2.1
10°-20°	980.5	6.0
20°-30°	1478.9	9.1
30°-40°	1762.1	10.9
40°-50°	1737.3	10.7
50°-60°	1327.7	8.2
60°-70°	821.7	5.1
70°-80°	466.7	2.9
80°-90°	144.8	0.9
90°-100°	517.4	3.2
100°-110°	1423.6	8.8
110°-120°	1469.4	9.1
120°-130°	1177.3	7.3
130°-140°	924.7	5.7
140°-150°	708.6	4.4
150°-160°	509.5	3.1
160°-170°	311.5	1.9
170°-180°	105.0	0.6
0°-30°	2802.1	17.3
0°-40°	4564.2	28.2
0°-60°	7629.2	47.1
0°-90°	9062.3	55.9
90°-120°	3410.4	21.0
90°-150°	6220.9	38.4
90°-180°	7147.0	44.1
0°-180°	16209.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3624	3624	3624	3624	3624	
5°	3643	3603	3615	3602	3596	346
15°	3505	3469	3484	3471	3465	989
25°	3249	3210	3228	3193	3190	1495
35°	2862	2829	2837	2800	2797	1786
45°	2316	2286	2276	2235	2229	1774
55°	1517	1493	1483	1458	1452	1359
65°	815	809	818	812	812	825
75°	440	440	440	443	443	465
85°	112	118	125	125	125	131
90°	2	9	16	21	21	10
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°	3624.0	3624.0	3624.0	3624.0	3624.0
2.5°	3646.4	3614.7	3624.0	3616.1	3599.0
5°	3642.7	3603.0	3614.6	3602.0	3595.9
7.5°	3614.6	3575.5	3587.1	3574.5	3570.9
10°	3589.6	3553.0	3564.6	3552.0	3545.9
12.5°	3562.1	3523.1	3537.2	3522.1	3515.9
15°	3505.3	3468.7	3483.5	3470.9	3464.8
17.5°	3442.9	3403.8	3418.6	3404.0	3396.1
20°	3393.0	3356.3	3371.1	3349.2	3346.1
22.5°	3338.0	3301.4	3316.2	3286.8	3286.2
25°	3249.4	3209.7	3227.5	3193.1	3190.1
27.5°	3143.9	3107.3	3122.0	3087.0	3083.3
30°	3071.5	3034.8	3049.6	3012.0	3005.9
32.5°	2989.1	2954.9	2967.2	2929.7	2926.0
35°	2862.3	2828.8	2837.4	2799.8	2796.8
37.5°	2718.1	2687.6	2692.5	2651.3	2648.2
40°	2615.7	2585.2	2587.6	2543.9	2540.8
42.5°	2503.4	2472.8	2470.3	2426.5	2423.5
45°	2316.1	2285.6	2275.5	2234.8	2228.7
47.5°	2102.6	2072.1	2053.3	2020.1	2015.8
50°	1947.8	1917.2	1900.9	1872.6	1863.5
52.5°	1780.4	1749.9	1736.1	1710.3	1701.2
55°	1517.0	1492.6	1482.7	1457.6	1451.5
57.5°	1266.7	1250.2	1247.3	1222.9	1220.5
60°	1114.3	1105.2	1105.0	1083.1	1083.1
62.5°	984.5	977.8	982.6	968.2	965.8
65°	814.7	808.6	817.8	811.6	811.6
67.5°	680.5	680.5	686.1	683.6	683.6
70°	605.6	605.6	608.7	608.7	608.7
72.5°	538.1	535.7	543.7	543.7	541.3
75°	440.1	440.1	440.1	443.2	443.2
77.5°	342.7	343.3	345.9	345.2	342.7
80°	277.8	280.9	280.9	277.8	277.8
82.5°	212.9	215.9	216.0	215.3	212.9
85°	112.4	118.5	124.9	124.9	124.9
87.5°	32.9	44.1	53.2	54.1	51.6
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)