

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: P564788

Luminaire Tested: **SQ4-PW1-075U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564788
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

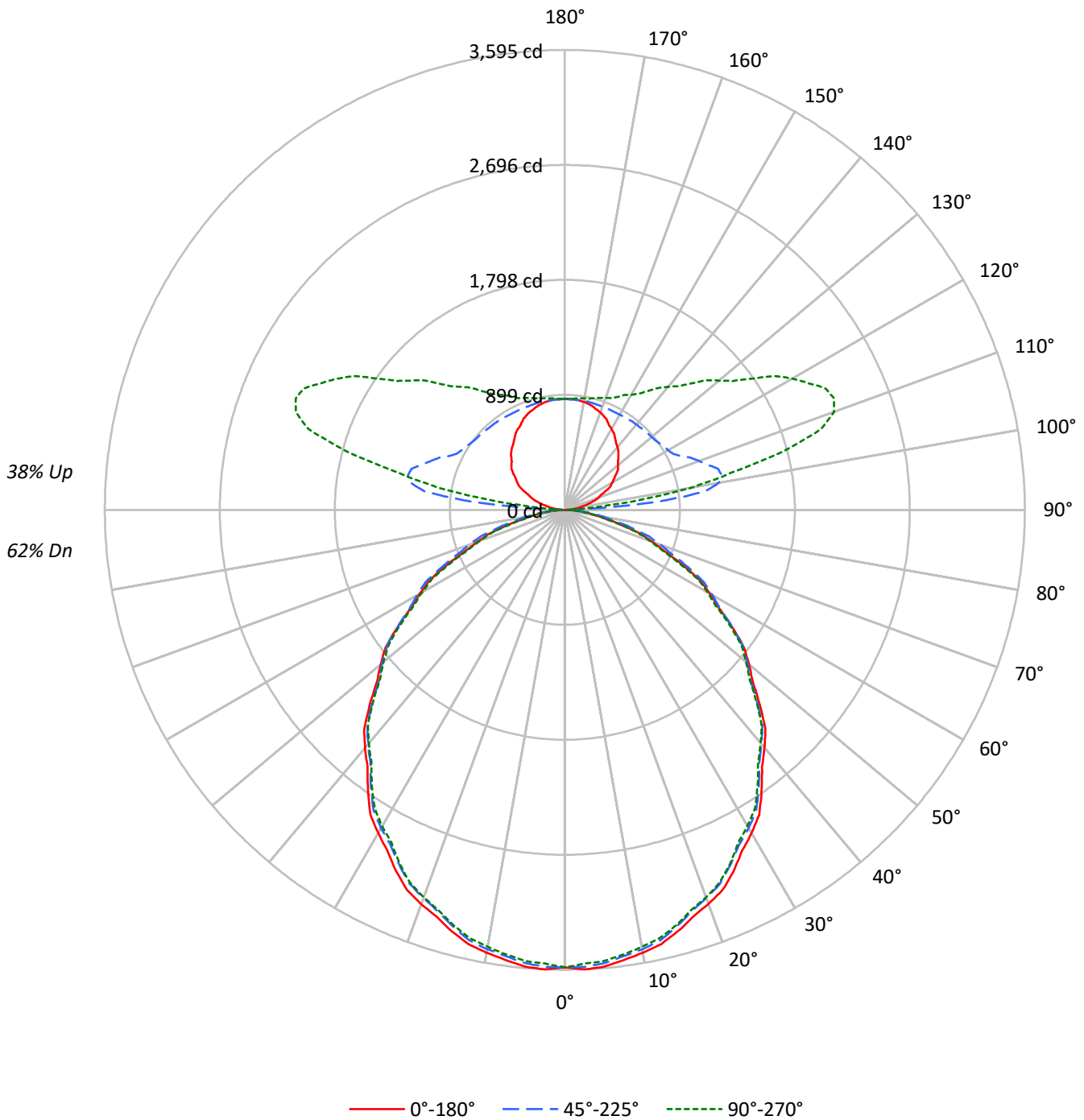
Lumens per Lamp: N/A
Luminaire Lumens: 14750.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16493	16493	16493
5°	16599	16468	16395
10°	16467	16334	16246
15°	16292	16112	16052
20°	16098	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9545	8085
80°	6442	8033	6527
85°	4166	6166	5499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	2.3
10°-20°	950.5	6.4
20°-30°	1409.9	9.6
30°-40°	1649.7	11.2
40°-50°	1642.3	11.1
50°-60°	1418.2	9.6
60°-70°	1020.9	6.9
70°-80°	535.3	3.6
80°-90°	134.9	0.9
90°-100°	409.2	2.8
100°-110°	1125.7	7.6
110°-120°	1161.9	7.9
120°-130°	931.0	6.3
130°-140°	731.2	5.0
140°-150°	560.3	3.8
150°-160°	402.9	2.7
160°-170°	246.4	1.7
170°-180°	83.0	0.6
0°-30°	2697.0	18.3
0°-40°	4346.7	29.5
0°-60°	7407.2	50.2
0°-90°	9098.4	61.7
90°-120°	2696.8	18.3
90°-150°	4919.3	33.4
90°-180°	5652.0	38.3
0°-180°	14750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3575	3575	3575	3575	3575	
5°	3585	3545	3556	3547	3540	340
15°	3411	3368	3374	3367	3361	962
25°	3118	3066	3062	3043	3052	1434
35°	2681	2644	2643	2618	2627	1676
45°	2154	2136	2126	2120	2117	1662
55°	1597	1594	1597	1575	1572	1425
65°	1011	1042	1062	1020	986	1002
75°	466	509	536	500	454	500
85°	79	103	116	110	104	104
90°	2	7	13	17	17	7
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3595.3	3565.7	3575.2	3567.2	3550.0
5°	3584.6	3544.6	3556.3	3546.7	3540.5
7.5°	3548.1	3511.1	3519.7	3509.6	3505.9
10°	3515.3	3478.4	3487.0	3474.2	3468.1
12.5°	3477.5	3438.1	3446.6	3434.0	3430.3
15°	3411.4	3368.2	3373.6	3367.1	3361.0
17.5°	3334.5	3290.8	3291.7	3281.6	3280.3
20°	3279.1	3232.9	3228.7	3216.2	3222.4
22.5°	3218.6	3169.9	3165.7	3148.2	3156.8
25°	3118.4	3066.1	3061.7	3043.0	3052.3
27.5°	3002.5	2950.8	2950.8	2924.6	2934.5
30°	2916.8	2867.5	2872.7	2841.5	2853.8
32.5°	2826.1	2781.8	2784.5	2753.3	2765.6
35°	2680.6	2643.6	2642.8	2617.8	2627.0
37.5°	2531.9	2499.3	2494.1	2479.7	2482.1
40°	2428.6	2400.9	2390.8	2381.3	2381.3
42.5°	2320.2	2295.0	2285.0	2278.0	2275.5
45°	2154.5	2136.1	2126.2	2119.8	2116.7
47.5°	1990.7	1973.5	1964.9	1960.4	1957.4
50°	1877.4	1865.0	1861.6	1852.1	1849.0
52.5°	1764.0	1756.6	1753.2	1741.2	1738.1
55°	1597.0	1593.9	1597.0	1574.9	1571.8
57.5°	1423.1	1428.1	1438.3	1408.5	1401.1
60°	1307.2	1319.5	1332.4	1297.5	1285.2
62.5°	1188.8	1208.5	1226.6	1186.5	1169.2
65°	1011.1	1041.9	1061.5	1019.8	985.9
67.5°	839.8	878.0	901.5	856.5	818.3
70°	721.3	764.5	790.6	745.6	702.4
72.5°	618.0	666.1	687.3	644.8	601.6
75°	466.2	509.3	535.5	499.8	453.6
77.5°	330.7	371.4	393.1	362.0	323.8
80°	242.5	285.7	302.4	276.5	245.7
82.5°	172.0	207.7	219.2	203.6	182.7
85°	78.7	103.4	116.5	110.1	103.9
87.5°	20.5	38.9	50.5	51.3	53.7
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)