

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: P564741

Luminaire Tested: **SQ4-PW1-075U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564741
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-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17510.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

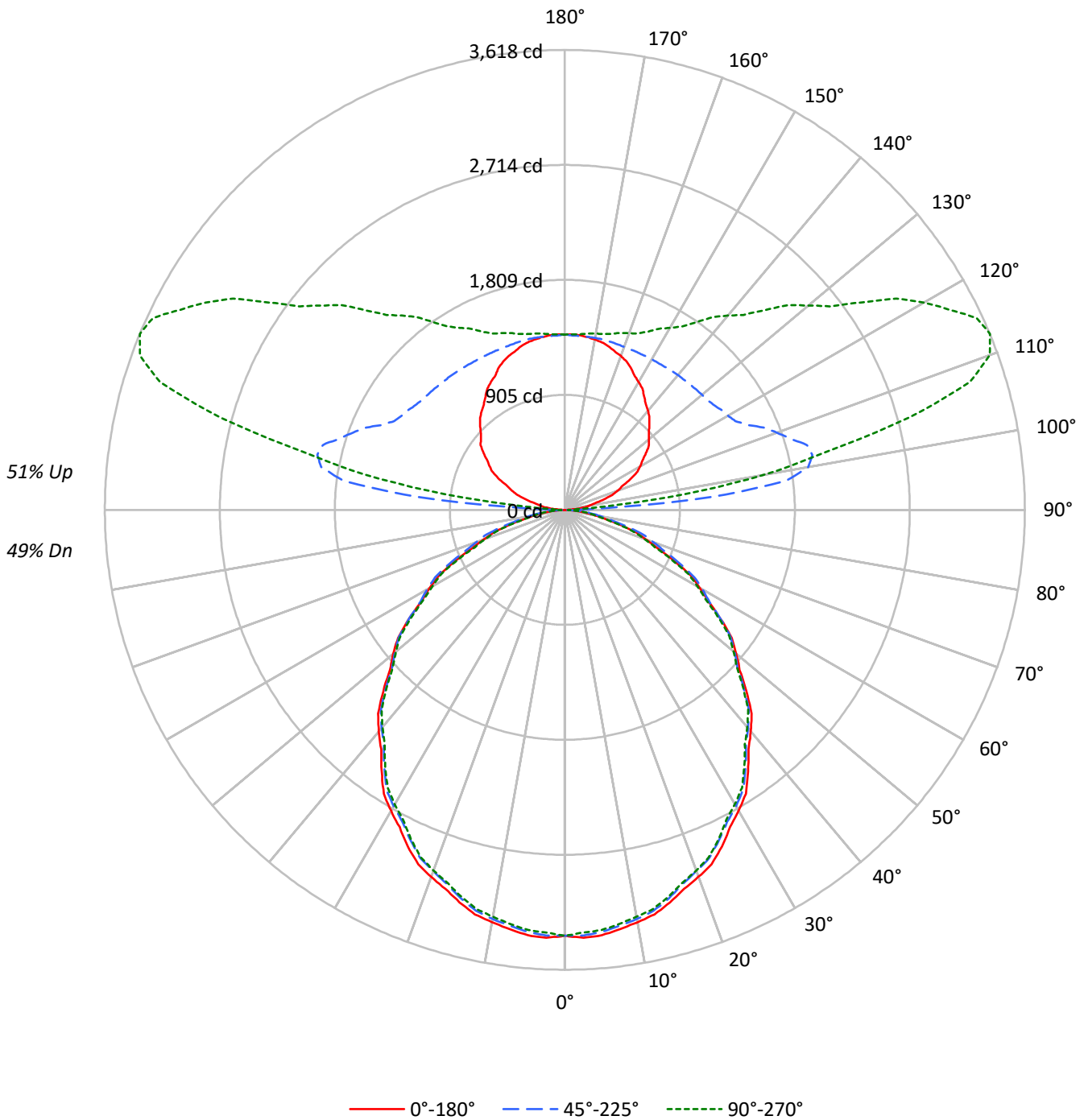
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	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°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9918	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8347	8291
55°	8026	8026	7898
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5919
75°	5191	5964	5051
80°	4026	5019	4079
85°	2604	3853	3437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	1.8
10°-20°	890.8	5.1
20°-30°	1321.4	7.5
30°-40°	1546.1	8.8
40°-50°	1539.2	8.8
50°-60°	1329.2	7.6
60°-70°	956.8	5.5
70°-80°	501.7	2.9
80°-90°	127.9	0.7
90°-100°	650.2	3.7
100°-110°	1789.0	10.2
110°-120°	1846.5	10.5
120°-130°	1479.4	8.4
130°-140°	1162.0	6.6
140°-150°	890.5	5.1
150°-160°	640.2	3.7
160°-170°	391.5	2.2
170°-180°	132.0	0.8
0°-30°	2527.7	14.4
0°-40°	4073.8	23.3
0°-60°	6942.3	39.6
0°-90°	8528.7	48.7
90°-120°	4285.7	24.5
90°-150°	7817.7	44.6
90°-180°	8981.0	51.3
0°-180°	17510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3351	3351	3351	3351	3351	
5°	3360	3322	3333	3324	3318	318
15°	3197	3157	3162	3156	3150	901
25°	2923	2874	2870	2852	2861	1344
35°	2512	2478	2477	2454	2462	1571
45°	2019	2002	1993	1987	1984	1558
55°	1497	1494	1497	1476	1473	1335
65°	948	976	995	956	924	939
75°	437	477	502	468	425	468
85°	74	97	109	103	97	97
90°	3	12	20	26	26	9
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3369.6	3341.9	3350.7	3343.3	3327.1
5°	3359.6	3322.1	3333.0	3324.0	3318.3
7.5°	3325.3	3290.7	3298.8	3289.2	3285.8
10°	3294.6	3260.0	3268.1	3256.1	3250.4
12.5°	3259.2	3222.3	3230.3	3218.4	3214.9
15°	3197.2	3156.8	3161.8	3155.8	3150.0
17.5°	3125.2	3084.2	3085.0	3075.6	3074.4
20°	3073.2	3029.9	3026.0	3014.3	3020.1
22.5°	3016.5	2970.9	2966.9	2950.6	2958.7
25°	2922.7	2873.6	2869.5	2852.0	2860.7
27.5°	2814.0	2765.5	2765.6	2741.0	2750.3
30°	2733.7	2687.5	2692.4	2663.1	2674.7
32.5°	2648.7	2607.1	2609.7	2580.5	2592.0
35°	2512.3	2477.7	2476.9	2453.5	2462.1
37.5°	2373.0	2342.4	2337.5	2324.0	2326.3
40°	2276.1	2250.2	2240.7	2231.9	2231.9
42.5°	2174.6	2150.9	2141.5	2135.0	2132.7
45°	2019.3	2002.0	1992.7	1986.8	1983.9
47.5°	1865.8	1849.6	1841.6	1837.4	1834.5
50°	1759.5	1748.0	1744.7	1735.8	1732.9
52.5°	1653.2	1646.3	1643.2	1631.9	1629.0
55°	1496.8	1493.9	1496.8	1476.0	1473.1
57.5°	1333.8	1338.4	1348.0	1320.1	1313.1
60°	1225.2	1236.7	1248.8	1216.0	1204.5
62.5°	1114.2	1132.6	1149.6	1112.0	1095.9
65°	947.7	976.5	994.9	955.8	924.0
67.5°	787.1	822.8	844.9	802.8	767.0
70°	676.1	716.5	741.0	698.8	658.3
72.5°	579.2	624.3	644.2	604.3	563.9
75°	436.9	477.3	501.9	468.4	425.1
77.5°	310.0	348.1	368.4	339.3	303.5
80°	227.3	267.7	283.4	259.1	230.3
82.5°	161.2	194.7	205.5	190.9	171.2
85°	73.8	96.9	109.2	103.2	97.4
87.5°	19.5	37.4	49.0	50.2	52.5
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)