

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: P564700

Luminaire Tested: **SQ4-PW1-050U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564700
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

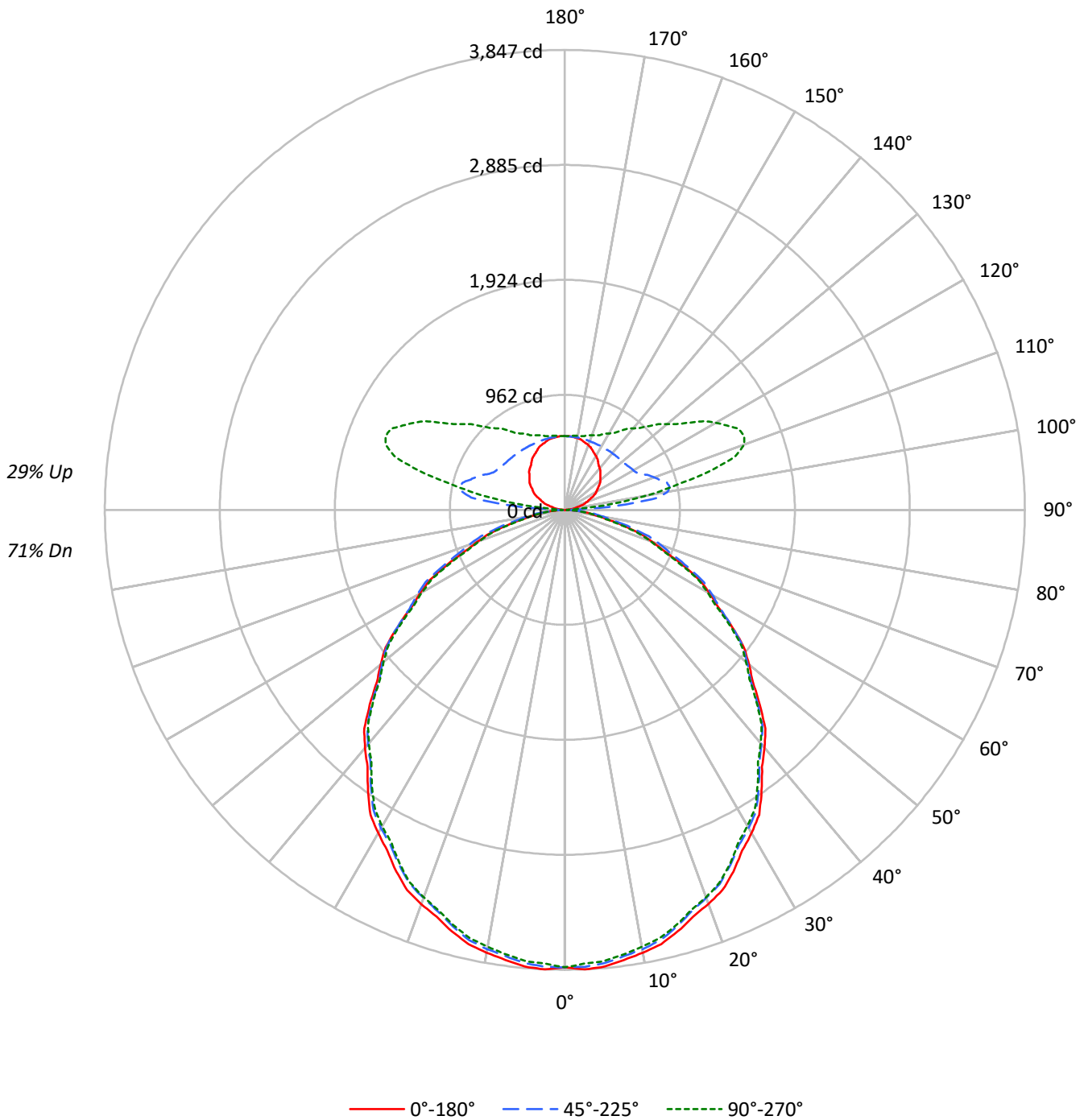
Lumens per Lamp: N/A
Luminaire Lumens: 13760.1 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17649	17649	17649
5°	17763	17623	17544
10°	17621	17479	17384
15°	17434	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16626	16375	16267
35°	16154	15927	15831
40°	15650	15407	15346
45°	15042	14843	14777
50°	14418	14297	14200
55°	13745	13745	13528
60°	12907	13155	12689
65°	11811	12399	11516
70°	10411	11412	10139
75°	8892	10213	8652
80°	6894	8597	6984
85°	4462	6600	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	2.6
10°-20°	1017.1	7.4
20°-30°	1508.7	11.0
30°-40°	1765.3	12.8
40°-50°	1757.5	12.8
50°-60°	1517.6	11.0
60°-70°	1092.4	7.9
70°-80°	572.9	4.2
80°-90°	144.4	1.0
90°-100°	295.8	2.2
100°-110°	803.7	5.8
110°-120°	826.3	6.0
120°-130°	660.7	4.8
130°-140°	519.1	3.8
140°-150°	398.0	2.9
150°-160°	286.2	2.1
160°-170°	175.1	1.3
170°-180°	59.0	0.4
0°-30°	2886.1	21.0
0°-40°	4651.4	33.8
0°-60°	7926.5	57.6
0°-90°	9736.2	70.8
90°-120°	1925.8	14.0
90°-150°	3503.7	25.5
90°-180°	4024.0	29.2
0°-180°	13760.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3826	3826	3826	3826	3826	
5°	3836	3793	3806	3795	3789	363
15°	3650	3604	3610	3603	3597	1029
25°	3337	3281	3276	3256	3266	1534
35°	2868	2829	2828	2801	2811	1793
45°	2306	2286	2275	2268	2265	1779
55°	1709	1706	1709	1685	1682	1525
65°	1082	1115	1136	1091	1055	1072
75°	499	545	573	535	485	535
85°	84	111	125	118	111	111
90°	2	8	14	18	18	6
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3825.8	3825.8	3825.8	3825.8	3825.8
2.5°	3847.4	3815.7	3825.8	3817.3	3798.8
5°	3835.9	3793.1	3805.6	3795.3	3788.7
7.5°	3796.8	3757.3	3766.5	3755.6	3751.6
10°	3761.7	3722.2	3731.4	3717.8	3711.2
12.5°	3721.3	3679.1	3688.3	3674.7	3670.7
15°	3650.5	3604.4	3610.1	3603.2	3596.6
17.5°	3568.3	3521.5	3522.4	3511.6	3510.3
20°	3508.9	3459.5	3455.0	3441.7	3448.3
22.5°	3444.2	3392.1	3387.6	3368.9	3378.2
25°	3337.0	3281.0	3276.4	3256.4	3266.2
27.5°	3213.0	3157.6	3157.7	3129.6	3140.2
30°	3121.3	3068.6	3074.1	3040.7	3053.9
32.5°	3024.2	2976.8	2979.7	2946.3	2959.5
35°	2868.5	2828.9	2828.1	2801.3	2811.2
37.5°	2709.4	2674.5	2669.0	2653.5	2656.1
40°	2598.8	2569.2	2558.4	2548.3	2548.3
42.5°	2482.9	2455.9	2445.1	2437.7	2435.0
45°	2305.6	2285.8	2275.2	2268.4	2265.1
47.5°	2130.3	2111.9	2102.7	2097.9	2094.6
50°	2009.0	1995.8	1992.1	1981.9	1978.6
52.5°	1887.6	1879.7	1876.2	1863.3	1860.0
55°	1709.0	1705.7	1709.0	1685.3	1682.0
57.5°	1522.9	1528.2	1539.1	1507.2	1499.3
60°	1398.9	1412.0	1425.8	1388.4	1375.3
62.5°	1272.1	1293.2	1312.6	1269.7	1251.2
65°	1082.0	1115.0	1135.9	1091.3	1055.0
67.5°	898.6	939.5	964.7	916.6	875.7
70°	771.9	818.0	846.1	797.8	751.7
72.5°	661.3	712.8	735.5	690.0	643.8
75°	498.9	545.0	573.0	534.8	485.4
77.5°	353.9	397.4	420.7	387.4	346.5
80°	259.5	305.7	323.6	295.9	262.9
82.5°	184.0	222.3	234.6	217.9	195.5
85°	84.3	110.6	124.7	117.8	111.2
87.5°	22.0	41.6	54.0	54.9	57.5
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)