

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: P564027

Luminaire Tested: **SQ4-PR1-050U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564027
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

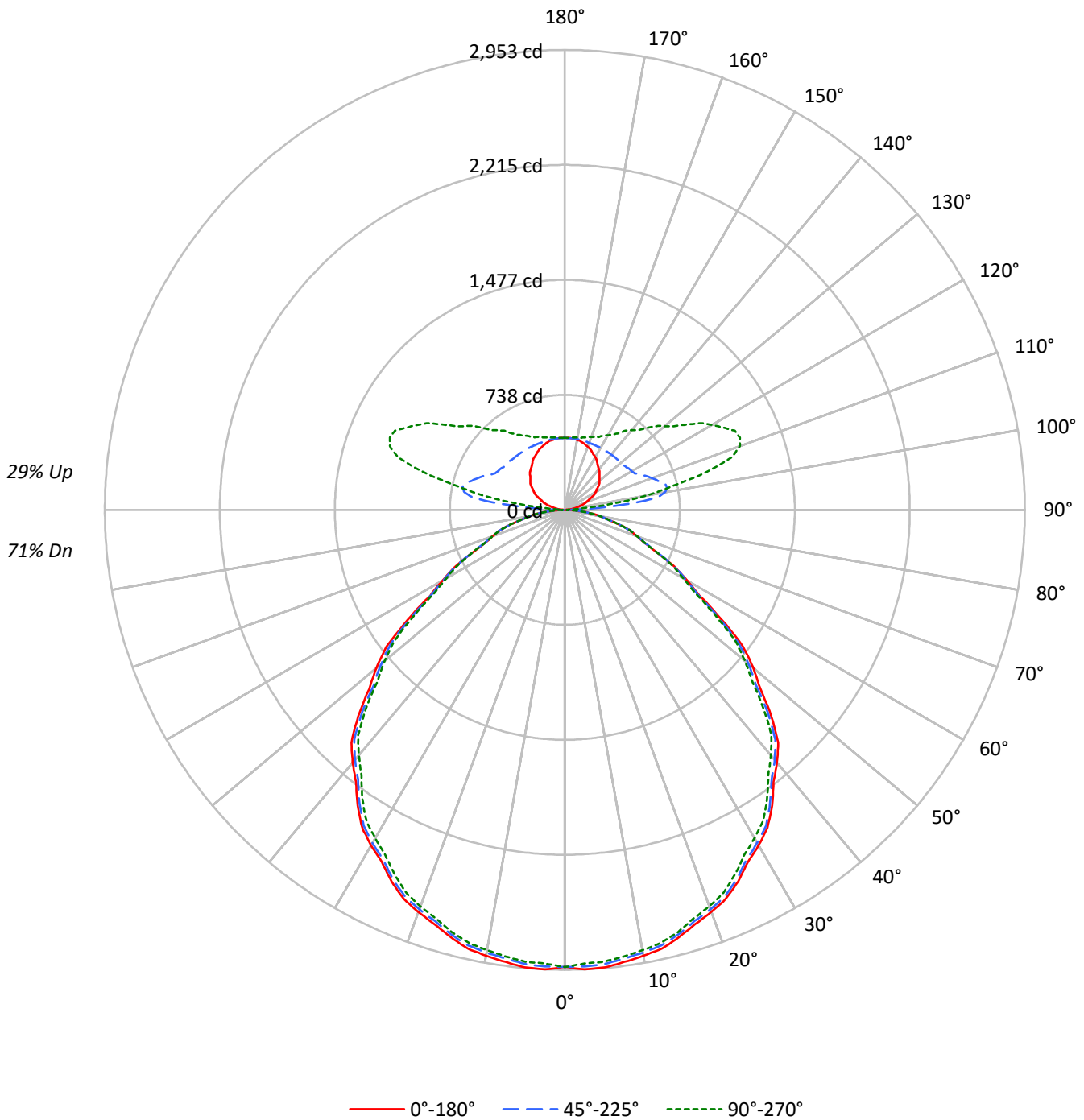
Lumens per Lamp: N/A
Luminaire Lumens: 10357.1 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17981
10°	18158	18031	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16317	16031	15701
50°	15095	14732	14441
55°	13175	12877	12606
60°	11102	11009	10791
65°	9603	9639	9566
70°	8819	8866	8866
75°	8472	8472	8532
80°	7970	8058	7970
85°	6422	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	2.7
10°-20°	794.1	7.7
20°-30°	1197.8	11.6
30°-40°	1427.1	13.8
40°-50°	1407.0	13.6
50°-60°	1075.3	10.4
60°-70°	665.4	6.4
70°-80°	378.0	3.6
80°-90°	116.8	1.1
90°-100°	221.9	2.1
100°-110°	602.8	5.8
110°-120°	619.7	6.0
120°-130°	495.5	4.8
130°-140°	389.3	3.8
140°-150°	298.5	2.9
150°-160°	214.7	2.1
160°-170°	131.3	1.3
170°-180°	44.2	0.4
0°-30°	2269.4	21.9
0°-40°	3696.6	35.7
0°-60°	6178.9	59.7
0°-90°	7339.1	70.9
90°-120°	1444.4	13.9
90°-150°	2627.7	25.4
90°-180°	3018.0	29.1
0°-180°	10357.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2935	2935	2935	2935	2935	
5°	2950	2918	2928	2917	2912	280
15°	2839	2809	2821	2811	2806	801
25°	2632	2600	2614	2586	2584	1211
35°	2318	2291	2298	2268	2265	1447
45°	1876	1851	1843	1810	1805	1437
55°	1229	1209	1201	1180	1176	1101
65°	660	655	662	657	657	668
75°	356	356	356	359	359	376
85°	91	96	101	101	101	106
90°	2	6	10	13	13	6
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.1	2935.1	2935.1	2935.1	2935.1
2.5°	2953.3	2927.6	2935.1	2928.7	2914.8
5°	2950.2	2918.1	2927.5	2917.3	2912.3
7.5°	2927.5	2895.8	2905.2	2895.1	2892.1
10°	2907.3	2877.6	2887.0	2876.8	2871.9
12.5°	2885.0	2853.4	2864.8	2852.5	2847.6
15°	2839.0	2809.3	2821.3	2811.1	2806.1
17.5°	2788.4	2756.8	2768.7	2756.9	2750.5
20°	2748.0	2718.3	2730.3	2712.5	2710.1
22.5°	2703.5	2673.8	2685.8	2662.0	2661.5
25°	2631.7	2599.6	2614.0	2586.1	2583.7
27.5°	2546.2	2516.6	2528.6	2500.2	2497.2
30°	2487.6	2457.9	2469.9	2439.5	2434.5
32.5°	2420.9	2393.2	2403.2	2372.8	2369.8
35°	2318.2	2291.0	2298.0	2267.6	2265.1
37.5°	2201.4	2176.7	2180.7	2147.3	2144.8
40°	2118.5	2093.8	2095.8	2060.3	2057.8
42.5°	2027.5	2002.8	2000.7	1965.2	1962.8
45°	1875.8	1851.1	1842.9	1810.0	1805.0
47.5°	1702.9	1678.2	1662.9	1636.1	1632.6
50°	1577.5	1552.8	1539.6	1516.7	1509.2
52.5°	1442.0	1417.3	1406.1	1385.2	1377.8
55°	1228.6	1208.9	1200.8	1180.5	1175.5
57.5°	1025.9	1012.5	1010.2	990.4	988.5
60°	902.5	895.1	894.9	877.2	877.2
62.5°	797.3	791.9	795.8	784.2	782.2
65°	659.8	654.9	662.3	657.3	657.3
67.5°	551.1	551.1	555.7	553.6	553.6
70°	490.4	490.4	493.0	493.0	493.0
72.5°	435.8	433.9	440.4	440.3	438.4
75°	356.5	356.5	356.5	359.0	359.0
77.5°	277.6	278.1	280.1	279.6	277.6
80°	225.0	227.5	227.5	225.0	225.0
82.5°	172.4	174.9	174.9	174.4	172.4
85°	91.0	96.0	101.1	101.1	101.1
87.5°	26.6	35.4	42.5	43.1	41.1
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)