

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: P564699

Luminaire Tested: **SQ4-PW1-050U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564699
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-6
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

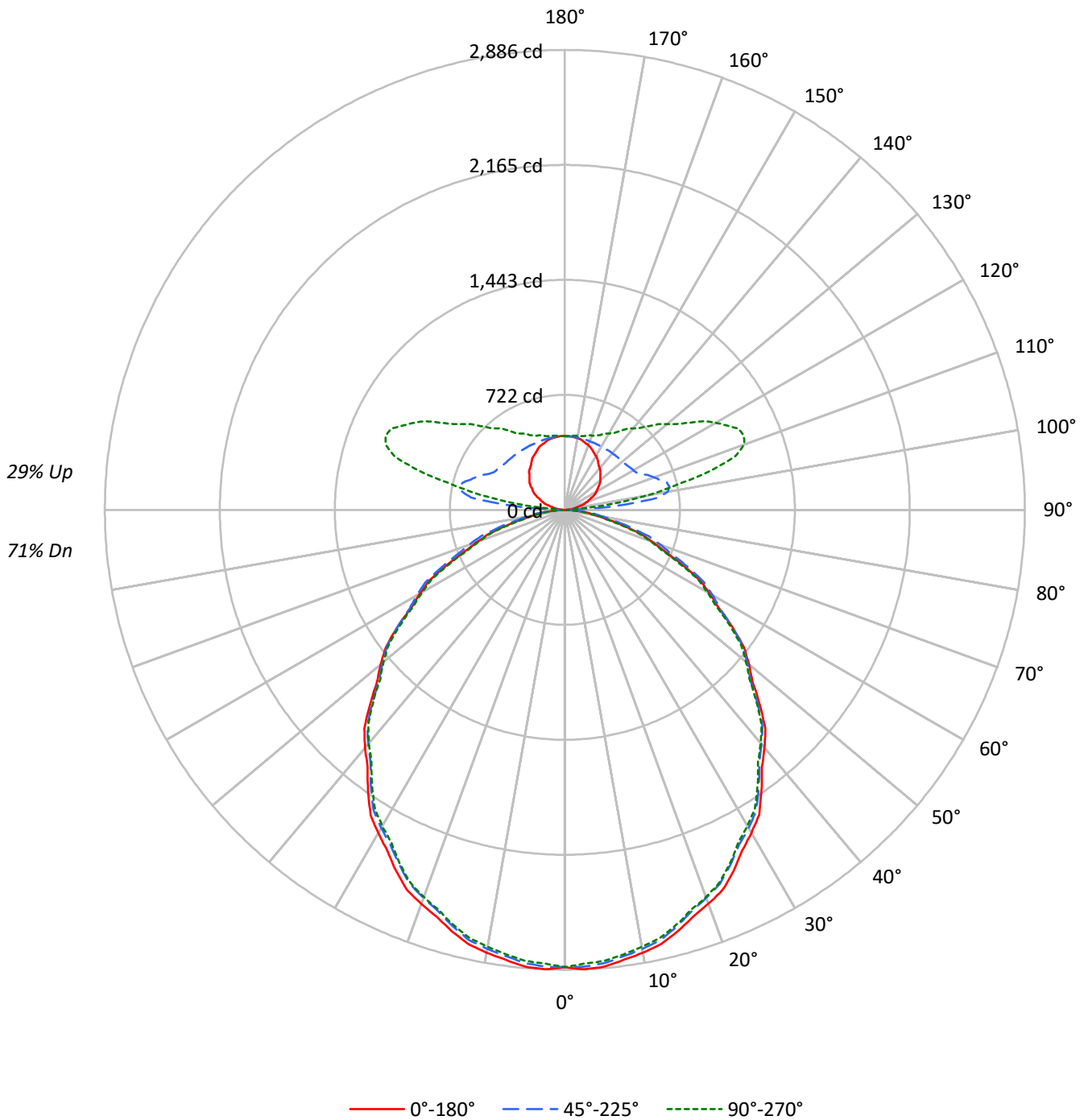
Lumens per Lamp: N/A
Luminaire Lumens: 10320.1 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	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°	17648	17648	17648
5°	17763	17623	17544
10°	17621	17479	17384
15°	17434	17241	17176
20°	17226	16961	16928
25°	16986	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15346
45°	15042	14843	14778
50°	14418	14297	14200
55°	13744	13744	13528
60°	12906	13155	12688
65°	11811	12400	11517
70°	10411	11411	10139
75°	8893	10214	8650
80°	6896	8597	6985
85°	4460	6599	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	2.6
10°-20°	762.8	7.4
20°-30°	1131.5	11.0
30°-40°	1324.0	12.8
40°-50°	1318.1	12.8
50°-60°	1138.2	11.0
60°-70°	819.3	7.9
70°-80°	429.7	4.2
80°-90°	108.3	1.0
90°-100°	221.9	2.2
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°	2164.6	21.0
0°-40°	3488.6	33.8
0°-60°	5944.9	57.6
0°-90°	7302.1	70.8
90°-120°	1444.4	14.0
90°-150°	2627.7	25.5
90°-180°	3018.0	29.2
0°-180°	10320.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2869	2869	2869	2869	2869	
5°	2877	2845	2854	2846	2842	272
15°	2738	2703	2708	2702	2697	772
25°	2503	2461	2457	2442	2450	1151
35°	2151	2122	2121	2101	2108	1345
45°	1729	1714	1706	1701	1699	1334
55°	1282	1279	1282	1264	1262	1144
65°	812	836	852	818	791	804
75°	374	409	430	401	364	401
85°	63	83	94	88	83	83
90°	2	6	10	13	13	5
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°	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2885.5	2861.8	2869.3	2863.0	2849.1
5°	2876.9	2844.8	2854.2	2846.5	2841.5
7.5°	2847.6	2817.9	2824.8	2816.7	2813.7
10°	2821.3	2791.6	2798.6	2788.3	2783.4
12.5°	2791.0	2759.3	2766.2	2756.0	2753.1
15°	2737.9	2703.3	2707.5	2702.4	2697.4
17.5°	2676.2	2641.1	2641.8	2633.7	2632.7
20°	2631.7	2594.6	2591.3	2581.3	2586.2
22.5°	2583.2	2544.1	2540.7	2526.7	2533.6
25°	2502.8	2460.8	2457.3	2442.3	2449.7
27.5°	2409.7	2368.2	2368.3	2347.2	2355.1
30°	2341.0	2301.4	2305.6	2280.5	2290.4
32.5°	2268.2	2232.6	2234.8	2209.7	2219.6
35°	2151.4	2121.7	2121.0	2101.0	2108.4
37.5°	2032.1	2005.8	2001.7	1990.1	1992.1
40°	1949.1	1926.9	1918.8	1911.2	1911.2
42.5°	1862.2	1841.9	1833.9	1828.2	1826.3
45°	1729.2	1714.4	1706.4	1701.3	1698.9
47.5°	1597.7	1583.9	1577.0	1573.4	1570.9
50°	1506.7	1496.8	1494.1	1486.4	1484.0
52.5°	1415.7	1409.8	1407.1	1397.5	1395.0
55°	1281.7	1279.3	1281.7	1264.0	1261.5
57.5°	1142.2	1146.1	1154.3	1130.4	1124.5
60°	1049.1	1059.0	1069.4	1041.3	1031.4
62.5°	954.1	969.9	984.4	952.3	938.4
65°	811.5	836.2	852.0	818.5	791.3
67.5°	674.0	704.6	723.5	687.4	656.8
70°	578.9	613.5	634.5	598.4	563.8
72.5°	496.0	534.6	551.6	517.5	482.9
75°	374.2	408.8	429.8	401.1	364.0
77.5°	265.4	298.1	315.5	290.5	259.9
80°	194.7	229.3	242.7	221.9	197.2
82.5°	138.0	166.7	176.0	163.4	146.6
85°	63.2	83.0	93.5	88.4	83.4
87.5°	16.5	31.2	40.5	41.1	43.1
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)