

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: P564987

Luminaire Tested: **SQ4-PW1-100U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564987
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

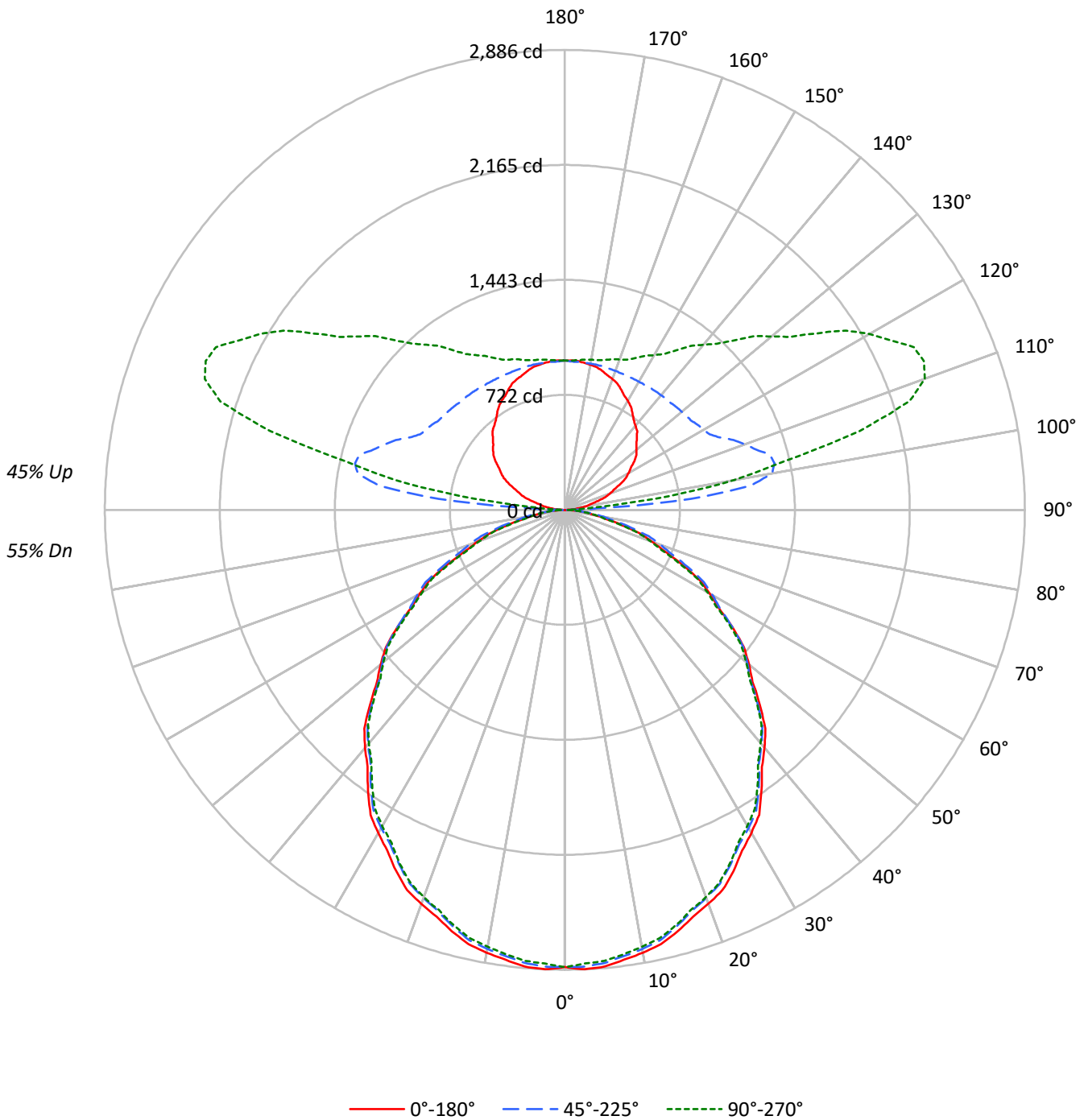
Lumens per Lamp: N/A
Luminaire Lumens: 13387.4 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46		
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33		
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25		
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22		
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17		
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15		
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14		

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	2.0
10°-20°	762.8	5.7
20°-30°	1131.5	8.5
30°-40°	1324.0	9.9
40°-50°	1318.1	9.8
50°-60°	1138.2	8.5
60°-70°	819.3	6.1
70°-80°	429.7	3.2
80°-90°	108.5	0.8
90°-100°	438.6	3.3
100°-110°	1210.8	9.0
110°-120°	1248.7	9.3
120°-130°	1003.5	7.5
130°-140°	788.6	5.9
140°-150°	604.8	4.5
150°-160°	434.7	3.2
160°-170°	265.8	2.0
170°-180°	89.6	0.7
0°-30°	2164.6	16.2
0°-40°	3488.6	26.1
0°-60°	5944.9	44.4
0°-90°	7302.3	54.5
90°-120°	2898.1	21.6
90°-150°	5295.0	39.6
90°-180°	6085.0	45.5
0°-180°	13387.4	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°	3	6	12	14	15	7
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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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°	16.8	31.2	40.8	41.2	43.4
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)