

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: P562971

Luminaire Tested: **SQ4-PC3-100U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562971
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

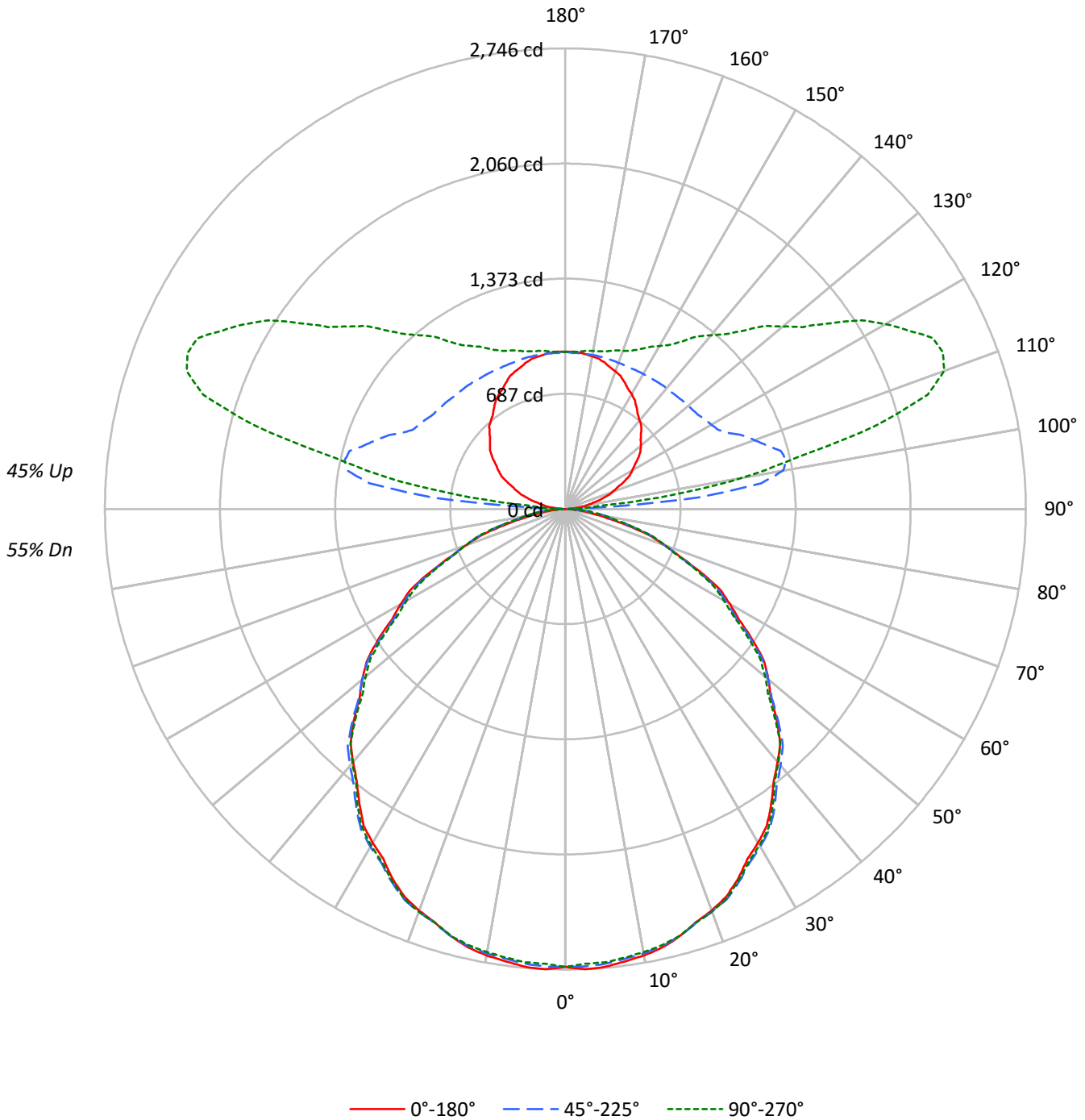
Lumens per Lamp: N/A
Luminaire Lumens: 13538.5 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47		
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16791	16791	16774
20°	16680	16730	16730
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14878
55°	14639	14450	14232
60°	13933	13652	13435
65°	12877	12620	12509
70°	11276	11366	11321
75°	9071	10034	10093
80°	6447	8508	8597
85°	3924	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	1.9
10°-20°	741.5	5.5
20°-30°	1122.9	8.3
30°-40°	1346.2	9.9
40°-50°	1372.7	10.1
50°-60°	1198.3	8.9
60°-70°	857.9	6.3
70°-80°	441.9	3.3
80°-90°	113.7	0.8
90°-100°	438.6	3.2
100°-110°	1210.8	8.9
110°-120°	1248.7	9.2
120°-130°	1003.5	7.4
130°-140°	788.6	5.8
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°	2122.8	15.7
0°-40°	3469.1	25.6
0°-60°	6040.0	44.6
0°-90°	7453.4	55.1
90°-120°	2898.1	21.4
90°-150°	5295.0	39.1
90°-180°	6085.0	44.9
0°-180°	13538.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2730	2730	2730	2730	2730	
5°	2740	2713	2723	2715	2713	260
15°	2637	2614	2637	2637	2634	743
25°	2434	2417	2452	2445	2445	1120
35°	2141	2136	2174	2159	2159	1339
45°	1785	1780	1797	1775	1770	1374
55°	1365	1348	1348	1327	1327	1217
65°	885	865	867	860	860	875
75°	382	399	422	425	425	413
85°	56	85	101	104	101	76
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°	2730.3	2730.3	2730.3	2730.3	2730.3
2.5°	2746.5	2722.7	2730.3	2724.0	2714.1
5°	2740.4	2713.2	2722.7	2715.1	2712.6
7.5°	2720.7	2693.5	2706.0	2700.9	2698.4
10°	2702.5	2675.3	2689.8	2684.7	2682.3
12.5°	2678.2	2653.0	2669.6	2664.6	2664.1
15°	2636.8	2614.5	2636.8	2636.7	2634.2
17.5°	2584.7	2564.4	2588.2	2589.7	2588.2
20°	2548.3	2526.0	2555.9	2553.4	2555.9
22.5°	2503.8	2485.5	2517.4	2510.9	2513.4
25°	2434.5	2417.2	2452.2	2444.6	2444.6
27.5°	2352.6	2340.2	2378.4	2370.3	2370.3
30°	2298.0	2285.6	2325.8	2315.7	2315.7
32.5°	2237.3	2228.9	2267.2	2255.0	2255.0
35°	2141.3	2136.3	2174.1	2159.0	2159.0
37.5°	2042.2	2037.7	2072.0	2053.7	2047.7
40°	1969.4	1966.9	1997.2	1976.9	1976.9
42.5°	1896.5	1894.1	1920.3	1896.0	1896.0
45°	1784.8	1779.9	1797.4	1774.6	1769.6
47.5°	1663.0	1658.0	1669.0	1644.2	1641.7
50°	1580.0	1575.1	1580.0	1557.2	1554.8
52.5°	1495.1	1486.2	1487.0	1464.2	1463.7
55°	1365.1	1347.8	1347.5	1327.2	1327.2
57.5°	1227.6	1204.9	1206.9	1189.6	1187.2
60°	1132.6	1107.8	1109.8	1094.6	1092.1
62.5°	1039.5	1010.9	1016.8	999.6	999.1
65°	884.8	865.0	867.1	859.5	859.5
67.5°	736.2	717.9	731.1	725.0	724.5
70°	627.0	614.6	632.0	632.0	629.5
72.5°	525.8	525.3	547.1	547.1	548.6
75°	381.7	399.0	422.2	424.7	424.7
77.5°	254.8	285.5	311.0	312.0	311.5
80°	182.0	216.6	240.2	245.2	242.7
82.5°	123.4	160.0	179.5	184.5	182.0
85°	55.6	85.3	101.1	103.6	101.1
87.5°	16.8	35.2	42.8	43.1	39.4
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)