

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: P562917

Luminaire Tested: **SQ4-PC3-100U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562917
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-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

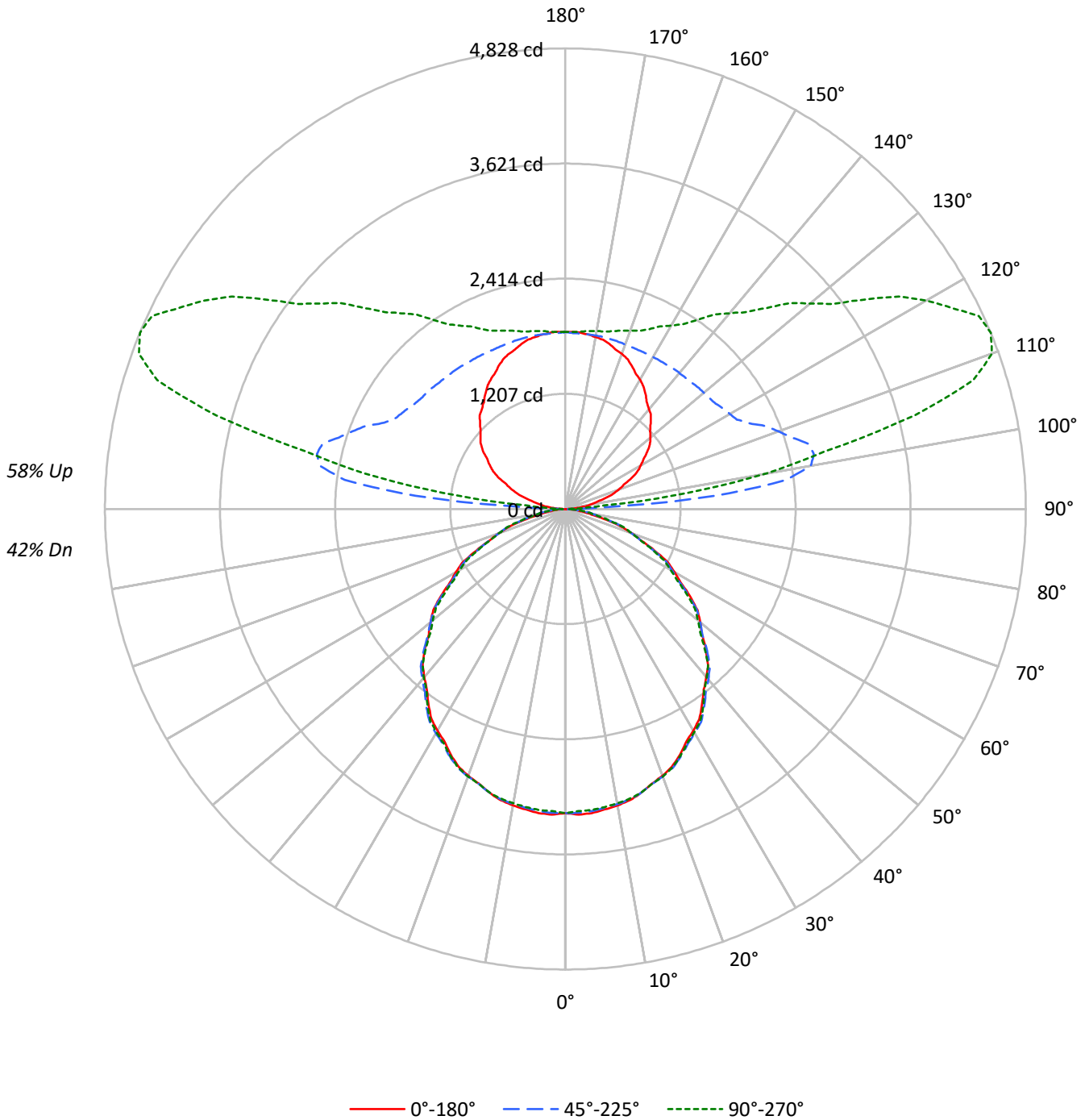
Lumens per Lamp: N/A
Luminaire Lumens: 20754.4 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 153.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7844
65°	7519	7369	7304
70°	6583	6636	6610
75°	5297	5858	5894
80°	3765	4968	5019
85°	2290	4167	4167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	1.5
10°-20°	865.9	4.2
20°-30°	1311.3	6.3
30°-40°	1572.1	7.6
40°-50°	1603.0	7.7
50°-60°	1399.3	6.7
60°-70°	1001.8	4.8
70°-80°	516.0	2.5
80°-90°	134.3	0.6
90°-100°	868.4	4.2
100°-110°	2397.4	11.6
110°-120°	2472.6	11.9
120°-130°	1986.9	9.6
130°-140°	1561.5	7.5
140°-150°	1197.6	5.8
150°-160°	860.7	4.1
160°-170°	526.4	2.5
170°-180°	177.5	0.9
0°-30°	2479.0	11.9
0°-40°	4051.1	19.5
0°-60°	7053.4	34.0
0°-90°	8705.5	41.9
90°-120°	5738.4	27.6
90°-150°	10484.4	50.5
90°-180°	12049.0	58.1
0°-180°	20754.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3188	3188	3188	3188	3188	
5°	3200	3168	3180	3171	3168	304
15°	3079	3053	3079	3079	3076	868
25°	2843	2823	2864	2855	2855	1308
35°	2500	2495	2539	2521	2521	1564
45°	2084	2078	2099	2072	2066	1604
55°	1594	1574	1574	1550	1550	1421
65°	1033	1010	1013	1004	1004	1022
75°	446	466	493	496	496	482
85°	65	100	118	121	118	88
90°	6	12	24	27	30	12
95°	128	470	1576	648	421	137
105°	427	659	2638	4027	3792	455
115°	766	925	2124	4206	4783	752
125°	1050	1195	1926	3259	3824	935
135°	1264	1400	1872	2639	2976	978
145°	1466	1567	1848	2247	2418	918
155°	1653	1708	1834	2016	2080	762
165°	1789	1812	1842	1914	1929	504
175°	1854	1857	1846	1872	1866	176
180°	1854	1854	1854	1854	1854	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3188.4	3188.4	3188.4	3188.4	3188.4
2.5°	3207.3	3179.5	3188.4	3181.0	3169.5
5°	3200.2	3168.4	3179.5	3170.6	3167.7
7.5°	3177.1	3145.4	3160.0	3154.1	3151.2
10°	3155.9	3124.1	3141.1	3135.2	3132.3
12.5°	3127.5	3098.1	3117.5	3111.6	3111.0
15°	3079.1	3053.2	3079.1	3079.1	3076.2
17.5°	3018.3	2994.6	3022.4	3024.2	3022.4
20°	2975.8	2949.8	2984.7	2981.8	2984.7
22.5°	2923.8	2902.5	2939.8	2932.2	2935.1
25°	2843.0	2822.7	2863.6	2854.8	2854.8
27.5°	2747.3	2732.9	2777.4	2768.0	2768.0
30°	2683.5	2669.1	2716.0	2704.2	2704.2
32.5°	2612.7	2602.9	2647.5	2633.4	2633.4
35°	2500.5	2494.7	2538.9	2521.2	2521.2
37.5°	2384.8	2379.6	2419.6	2398.2	2391.3
40°	2299.8	2296.9	2332.2	2308.6	2308.6
42.5°	2214.7	2211.8	2242.5	2214.1	2214.1
45°	2084.2	2078.5	2099.0	2072.3	2066.5
47.5°	1941.9	1936.2	1949.0	1920.0	1917.1
50°	1845.1	1839.3	1845.1	1818.5	1815.6
52.5°	1745.9	1735.5	1736.5	1709.9	1709.3
55°	1594.2	1574.0	1573.5	1549.9	1549.9
57.5°	1433.6	1407.0	1409.4	1389.2	1386.3
60°	1322.6	1293.7	1296.0	1278.2	1275.3
62.5°	1213.9	1180.5	1187.4	1167.3	1166.7
65°	1033.3	1010.2	1012.6	1003.7	1003.7
67.5°	859.7	838.3	853.8	846.7	846.1
70°	732.1	717.7	738.0	738.0	735.1
72.5°	614.1	613.5	638.9	638.9	640.6
75°	445.8	466.0	493.0	496.0	496.0
77.5°	297.6	333.4	363.1	364.3	363.7
80°	212.6	253.0	280.5	286.3	283.4
82.5°	144.1	186.8	209.6	215.4	212.6
85°	64.9	99.6	118.1	121.0	118.1
87.5°	20.1	42.0	52.0	52.5	48.4
90°	5.9	11.7	23.7	26.8	29.7
92.5°	53.4	221.7	396.4	144.7	112.7
95°	127.6	469.9	1575.5	647.6	421.3
97.5°	211.3	526.3	2333.9	1796.9	1301.3
100°	273.0	560.2	2614.0	2632.4	2139.2
102.5°	332.3	598.6	2668.6	3252.5	2784.9
105°	427.3	659.3	2637.7	4026.9	3791.9
107.5°	528.1	734.7	2490.5	4400.3	4486.2
110°	599.3	785.0	2376.6	4480.6	4759.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	663.4	842.1	2269.8	4417.2	4828.0
115°	765.5	925.1	2124.4	4205.6	4782.9
117.5°	854.5	1013.5	2028.9	3907.7	4564.5
120°	913.9	1070.5	1990.9	3706.0	4367.5
122.5°	970.8	1120.5	1960.0	3517.7	4144.4
125°	1050.3	1195.4	1925.6	3258.8	3824.5
127.5°	1118.0	1263.0	1905.4	3039.9	3527.8
130°	1163.1	1308.1	1895.9	2905.9	3349.8
132.5°	1205.8	1343.9	1886.4	2793.4	3195.5
135°	1264.0	1400.3	1872.2	2639.4	2975.9
137.5°	1329.2	1453.4	1865.1	2510.1	2797.3
140°	1364.8	1486.7	1860.3	2423.9	2676.3
142.5°	1405.2	1517.8	1855.6	2347.2	2569.5
145°	1465.7	1567.3	1848.5	2247.0	2418.1
147.5°	1523.9	1612.6	1841.9	2162.4	2295.3
150°	1566.6	1639.1	1839.6	2112.0	2219.4
152.5°	1599.8	1667.7	1837.2	2068.9	2157.6
155°	1652.6	1707.8	1833.6	2016.1	2079.9
157.5°	1701.3	1743.7	1834.2	1977.6	2021.2
160°	1729.8	1767.5	1836.6	1956.0	1987.9
162.5°	1753.5	1786.6	1839.0	1936.9	1961.8
165°	1789.1	1812.3	1842.5	1914.1	1928.6
167.5°	1816.4	1830.4	1845.5	1900.2	1904.8
170°	1830.7	1842.3	1845.5	1893.0	1893.0
172.5°	1842.5	1849.5	1845.5	1883.4	1881.1
175°	1854.4	1857.3	1845.5	1872.1	1866.3
177.5°	1859.2	1856.8	1844.9	1861.4	1856.8
180°	1854.4	1854.4	1854.4	1854.4	1854.4

(END OF REPORT)