

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: P562629

Luminaire Tested: **SQ4-PC3-050U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562629
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

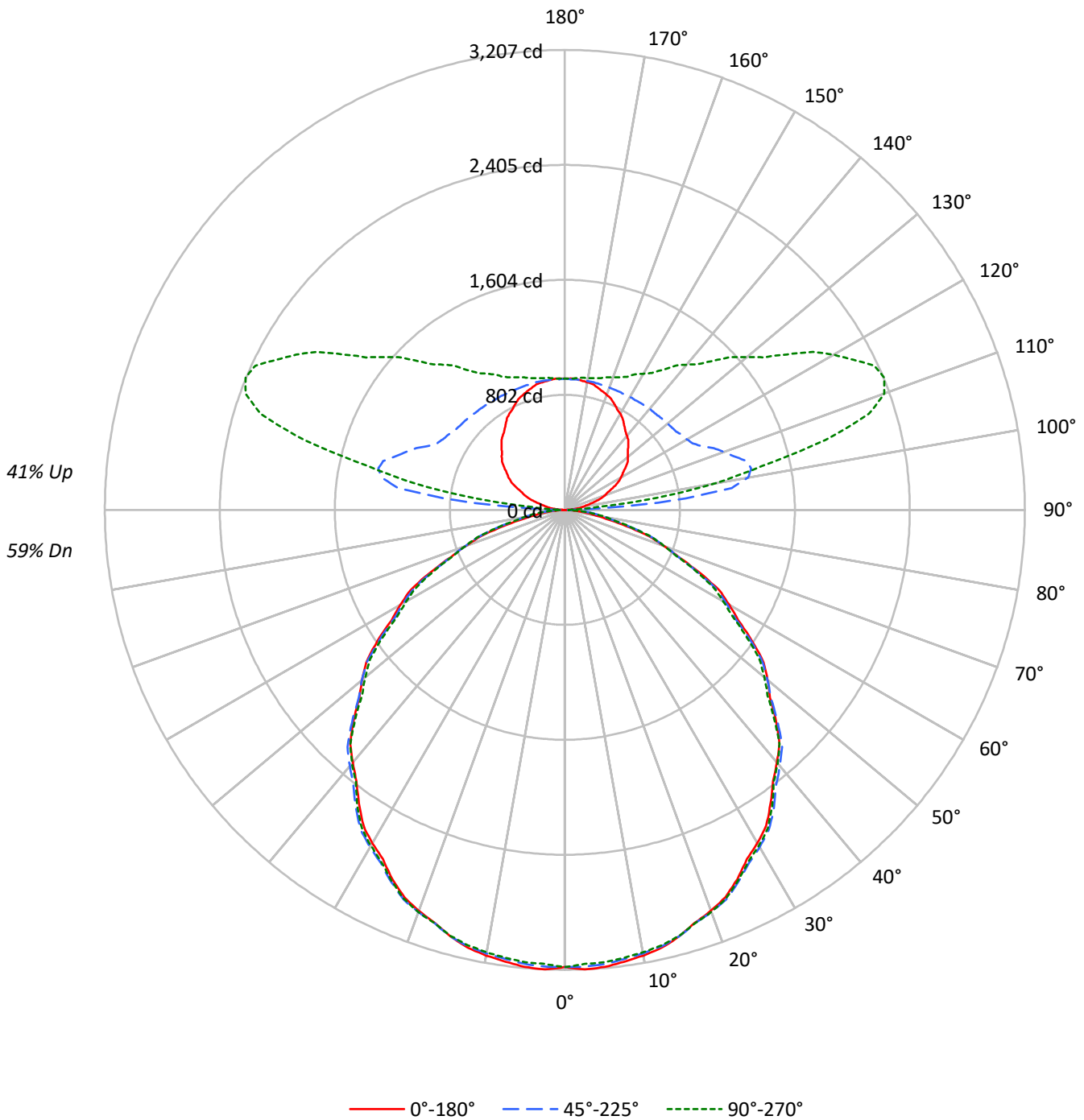
Lumens per Lamp: N/A
Luminaire Lumens: 14680.9 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 105.6
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

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	2.1
10°-20°	865.9	5.9
20°-30°	1311.3	8.9
30°-40°	1572.1	10.7
40°-50°	1603.0	10.9
50°-60°	1399.3	9.5
60°-70°	1001.8	6.8
70°-80°	516.0	3.5
80°-90°	134.0	0.9
90°-100°	439.4	3.0
100°-110°	1193.5	8.1
110°-120°	1227.1	8.4
120°-130°	981.1	6.7
130°-140°	770.9	5.3
140°-150°	591.1	4.0
150°-160°	425.1	2.9
160°-170°	260.0	1.8
170°-180°	87.6	0.6
0°-30°	2479.0	16.9
0°-40°	4051.1	27.6
0°-60°	7053.4	48.0
0°-90°	8705.2	59.3
90°-120°	2860.0	19.5
90°-150°	5203.1	35.4
90°-180°	5976.0	40.7
0°-180°	14680.9	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°	3	12	21	26	26	7
95°	65	240	765	333	224	69
105°	212	330	1312	1998	1880	225
115°	377	457	1051	2090	2381	372
125°	518	590	950	1602	1889	462
135°	624	693	924	1304	1471	482
145°	721	773	912	1108	1192	453
155°	815	844	906	995	1024	376
165°	883	894	909	948	950	249
175°	915	918	912	924	921	87
180°	915	915	915	915	915	

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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°	19.5	42.0	51.4	52.4	47.8
90°	2.9	11.6	20.6	26.5	26.5
92.5°	26.5	120.3	208.9	89.7	75.9
95°	64.7	240.3	765.1	333.0	223.7
97.5°	107.1	265.4	1173.0	912.6	641.0
100°	135.4	282.1	1297.8	1315.6	1062.4
102.5°	163.6	298.9	1330.8	1627.0	1403.7
105°	211.9	329.9	1312.5	1998.4	1880.5
107.5°	261.9	366.1	1236.6	2190.2	2223.0
110°	297.2	392.2	1180.1	2228.0	2369.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.8	418.2	1123.6	2196.7	2409.0
115°	376.7	457.3	1050.6	2090.1	2380.8
117.5°	422.6	499.7	1004.1	1939.1	2266.6
120°	453.2	528.0	982.9	1837.8	2163.0
122.5°	479.1	553.9	968.8	1736.3	2050.0
125°	517.9	589.9	950.5	1601.6	1889.3
127.5°	552.7	624.0	940.5	1499.4	1746.3
130°	573.9	642.9	935.8	1435.3	1656.8
132.5°	595.0	664.1	931.1	1380.5	1576.8
135°	623.9	692.9	924.1	1304.5	1471.4
137.5°	655.1	717.8	920.5	1237.4	1377.8
140°	673.9	734.3	918.2	1194.7	1321.3
142.5°	692.7	748.6	915.8	1161.3	1267.2
145°	721.0	772.8	912.3	1108.4	1191.8
147.5°	752.8	797.1	909.3	1066.8	1132.4
150°	774.0	811.4	909.3	1042.9	1094.7
152.5°	790.4	823.2	907.0	1021.5	1064.1
155°	815.2	843.9	906.4	995.3	1024.1
157.5°	839.3	861.7	906.4	977.5	999.4
160°	853.4	873.6	906.4	965.6	982.9
162.5°	867.5	883.1	908.7	956.1	968.8
165°	882.9	894.4	909.3	947.7	950.5
167.5°	898.7	904.5	912.3	937.6	939.9
170°	903.5	909.2	912.3	932.9	932.9
172.5°	908.2	911.6	912.3	928.2	928.2
175°	915.2	918.1	912.3	924.0	921.1
177.5°	917.6	917.6	910.5	919.8	915.2
180°	915.2	915.2	915.2	915.2	915.2

(END OF REPORT)