

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: P562764

Luminaire Tested: **SQ4-PC3-075U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562764
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

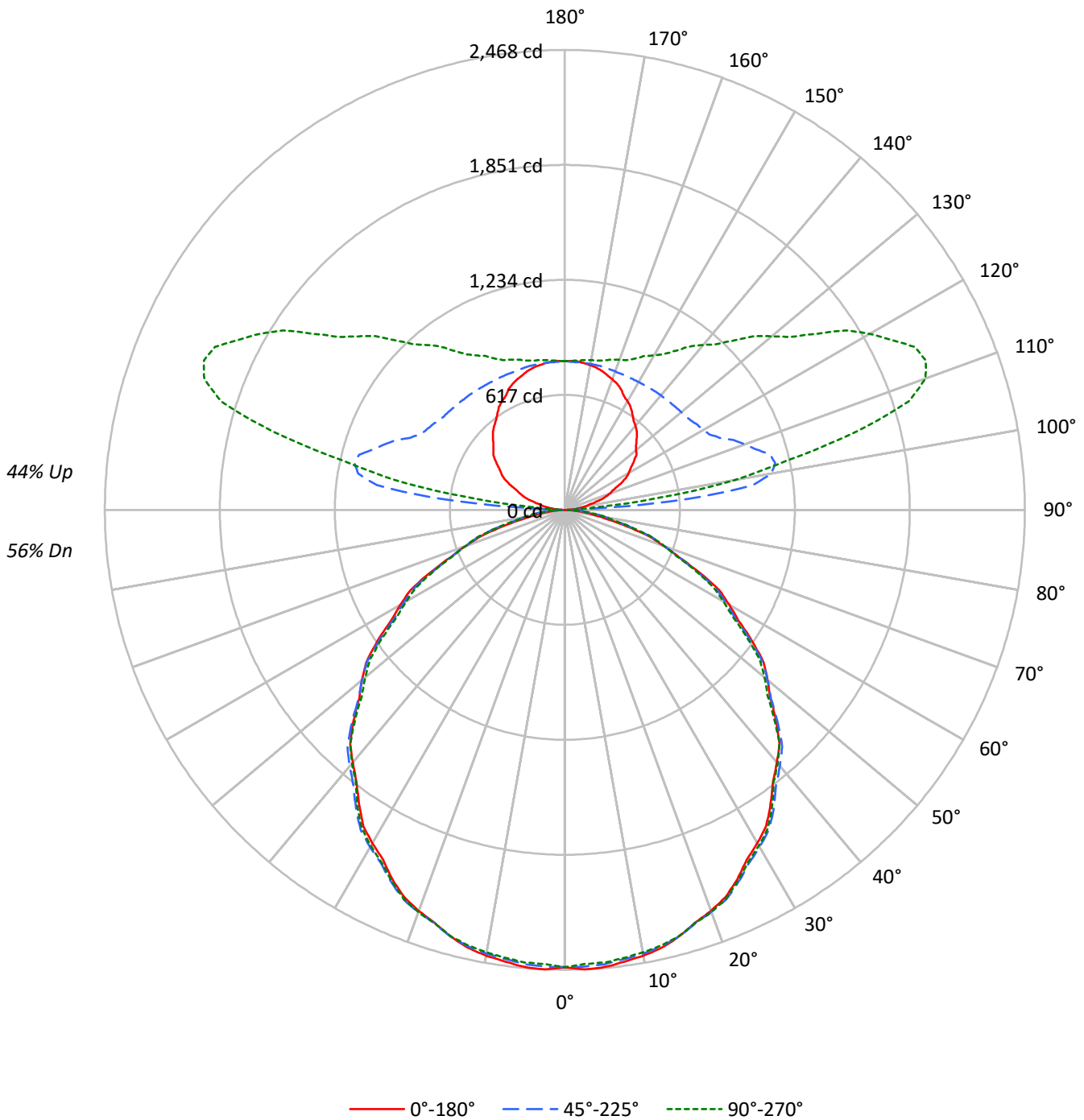
Lumens per Lamp: N/A
Luminaire Lumens: 11901.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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					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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11137	11218	11184
30°	11002	11135	11087
35°	10838	11005	10928
40°	10659	10809	10700
45°	10466	10539	10376
50°	10192	10192	10029
55°	9868	9741	9594
60°	9391	9203	9056
65°	8681	8508	8432
70°	7600	7661	7631
75°	6115	6764	6803
80°	4346	5736	5794
85°	2646	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	2.0
10°-20°	666.5	5.6
20°-30°	1009.3	8.5
30°-40°	1210.0	10.2
40°-50°	1233.8	10.4
50°-60°	1077.0	9.0
60°-70°	771.0	6.5
70°-80°	397.1	3.3
80°-90°	102.5	0.9
90°-100°	376.7	3.2
100°-110°	1036.3	8.7
110°-120°	1069.6	9.0
120°-130°	857.0	7.2
130°-140°	673.1	5.7
140°-150°	515.8	4.3
150°-160°	370.9	3.1
160°-170°	226.8	1.9
170°-180°	76.4	0.6
0°-30°	1908.0	16.0
0°-40°	3118.0	26.2
0°-60°	5428.7	45.6
0°-90°	6699.4	56.3
90°-120°	2482.6	20.9
90°-150°	4528.5	38.0
90°-180°	5203.0	43.7
0°-180°	11901.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2463	2439	2447	2440	2438	234
15°	2370	2350	2370	2370	2368	668
25°	2188	2173	2204	2197	2197	1007
35°	1925	1920	1954	1940	1940	1204
45°	1604	1600	1616	1595	1590	1235
55°	1227	1211	1211	1193	1193	1094
65°	795	778	779	772	772	787
75°	343	359	380	382	382	371
85°	50	77	91	93	91	68
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2454.0	2454.0	2454.0	2454.0	2454.0
2.5°	2468.5	2447.2	2454.0	2448.3	2439.4
5°	2463.1	2438.6	2447.2	2440.3	2438.1
7.5°	2445.3	2420.9	2432.2	2427.6	2425.3
10°	2429.0	2404.5	2417.6	2413.0	2410.8
12.5°	2407.2	2384.5	2399.4	2394.9	2394.4
15°	2369.9	2349.9	2369.9	2369.9	2367.6
17.5°	2323.1	2304.9	2326.3	2327.6	2326.3
20°	2290.4	2270.4	2297.2	2295.0	2297.2
22.5°	2250.4	2233.9	2262.7	2256.8	2259.0
25°	2188.1	2172.6	2204.0	2197.2	2197.2
27.5°	2114.5	2103.4	2137.7	2130.4	2130.4
30°	2065.4	2054.3	2090.4	2081.3	2081.3
32.5°	2010.9	2003.3	2037.7	2026.8	2026.8
35°	1924.6	1920.1	1954.1	1940.5	1940.5
37.5°	1835.5	1831.5	1862.3	1845.8	1840.5
40°	1770.0	1767.8	1795.0	1776.9	1776.9
42.5°	1704.6	1702.4	1726.0	1704.1	1704.1
45°	1604.2	1599.7	1615.5	1595.0	1590.5
47.5°	1494.7	1490.2	1500.1	1477.8	1475.6
50°	1420.1	1415.7	1420.1	1399.6	1397.4
52.5°	1343.8	1335.8	1336.5	1316.0	1315.6
55°	1227.0	1211.4	1211.1	1192.9	1192.9
57.5°	1103.4	1082.9	1084.7	1069.2	1067.0
60°	1017.9	995.7	997.5	983.8	981.6
62.5°	934.3	908.6	913.9	898.4	898.0
65°	795.3	777.5	779.4	772.5	772.5
67.5°	661.7	645.2	657.1	651.7	651.2
70°	563.5	552.4	568.0	568.0	565.8
72.5°	472.6	472.2	491.7	491.7	493.1
75°	343.1	358.7	379.5	381.7	381.7
77.5°	229.0	256.6	279.5	280.4	279.9
80°	163.6	194.7	215.9	220.4	218.1
82.5°	110.9	143.8	161.3	165.8	163.6
85°	50.0	76.6	90.9	93.1	90.9
87.5°	14.9	31.9	38.7	39.3	35.8
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)