

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: P562536

Luminaire Tested: **SQ4-PC3-025U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562536
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

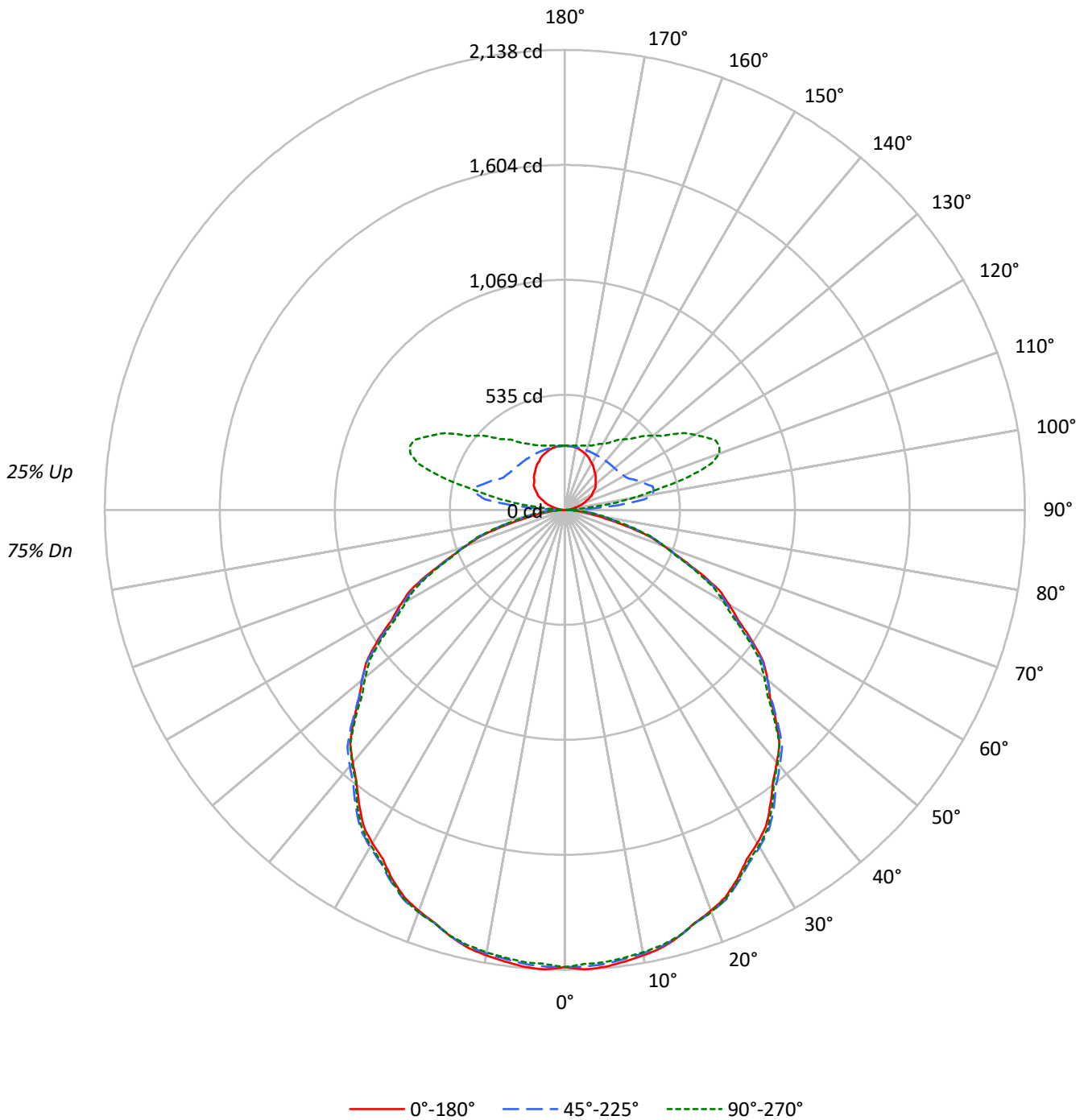
Lumens per Lamp: N/A
Luminaire Lumens: 7734.5 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

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	8311
60°	8135	7971	7844
65°	7519	7369	7305
70°	6583	6636	6610
75°	5297	5859	5893
80°	3764	4968	5018
85°	2292	4166	4166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	2.6
10°-20°	577.3	7.5
20°-30°	874.2	11.3
30°-40°	1048.1	13.6
40°-50°	1068.7	13.8
50°-60°	932.9	12.1
60°-70°	667.9	8.6
70°-80°	344.0	4.4
80°-90°	88.6	1.1
90°-100°	145.3	1.9
100°-110°	381.9	4.9
110°-120°	396.0	5.1
120°-130°	317.6	4.1
130°-140°	249.2	3.2
140°-150°	191.3	2.5
150°-160°	137.8	1.8
160°-170°	84.3	1.1
170°-180°	28.5	0.4
0°-30°	1652.7	21.4
0°-40°	2700.7	34.9
0°-60°	4702.3	60.8
0°-90°	5802.7	75.0
90°-120°	923.2	11.9
90°-150°	1681.3	21.7
90°-180°	1932.0	25.0
0°-180°	7734.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2133	2112	2120	2114	2112	203
15°	2053	2035	2053	2053	2051	579
25°	1895	1882	1909	1903	1903	872
35°	1667	1663	1693	1681	1681	1043
45°	1390	1386	1399	1382	1378	1070
55°	1063	1049	1049	1033	1033	947
65°	689	673	675	669	669	681
75°	297	311	329	331	331	321
85°	43	66	79	81	79	59
90°	2	6	15	8	8	3
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2125.6	2125.6	2125.6	2125.6	2125.6
2.5°	2138.2	2119.7	2125.6	2120.7	2113.0
5°	2133.4	2112.3	2119.7	2113.7	2111.8
7.5°	2118.1	2096.9	2106.7	2102.7	2100.8
10°	2103.9	2082.8	2094.1	2090.1	2088.2
12.5°	2085.0	2065.4	2078.3	2074.4	2074.0
15°	2052.8	2035.4	2052.8	2052.7	2050.8
17.5°	2012.2	1996.4	2015.0	2016.1	2015.0
20°	1983.9	1966.5	1989.8	1987.8	1989.8
22.5°	1949.2	1935.0	1959.9	1954.8	1956.7
25°	1895.3	1881.8	1909.1	1903.2	1903.2
27.5°	1831.5	1821.9	1851.6	1845.3	1845.3
30°	1789.0	1779.4	1810.7	1802.8	1802.8
32.5°	1741.8	1735.2	1765.0	1755.6	1755.6
35°	1667.0	1663.2	1692.6	1680.8	1680.8
37.5°	1589.9	1586.4	1613.1	1598.8	1594.2
40°	1533.2	1531.2	1554.8	1539.1	1539.1
42.5°	1476.5	1474.6	1495.0	1476.1	1476.1
45°	1389.5	1385.6	1399.3	1381.5	1377.7
47.5°	1294.6	1290.8	1299.4	1280.0	1278.1
50°	1230.1	1226.2	1230.1	1212.3	1210.4
52.5°	1163.9	1157.0	1157.7	1139.9	1139.5
55°	1062.8	1049.3	1049.0	1033.3	1033.3
57.5°	955.7	938.0	939.6	926.2	924.2
60°	881.7	862.5	864.0	852.2	850.2
62.5°	809.3	787.0	791.6	778.2	777.8
65°	688.8	673.4	675.1	669.2	669.2
67.5°	573.1	558.9	569.2	564.4	564.1
70°	488.1	478.5	492.0	492.0	490.1
72.5°	409.4	409.0	425.9	425.9	427.1
75°	297.2	310.7	328.7	330.6	330.6
77.5°	198.4	222.2	242.1	242.9	242.5
80°	141.7	168.6	187.0	190.9	188.9
82.5°	96.0	124.5	139.7	143.6	141.7
85°	43.3	66.4	78.7	80.6	78.7
87.5°	13.0	27.6	34.5	32.9	29.9
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)