

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: P562748

Luminaire Tested: **SQ4-PC3-075U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562748
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

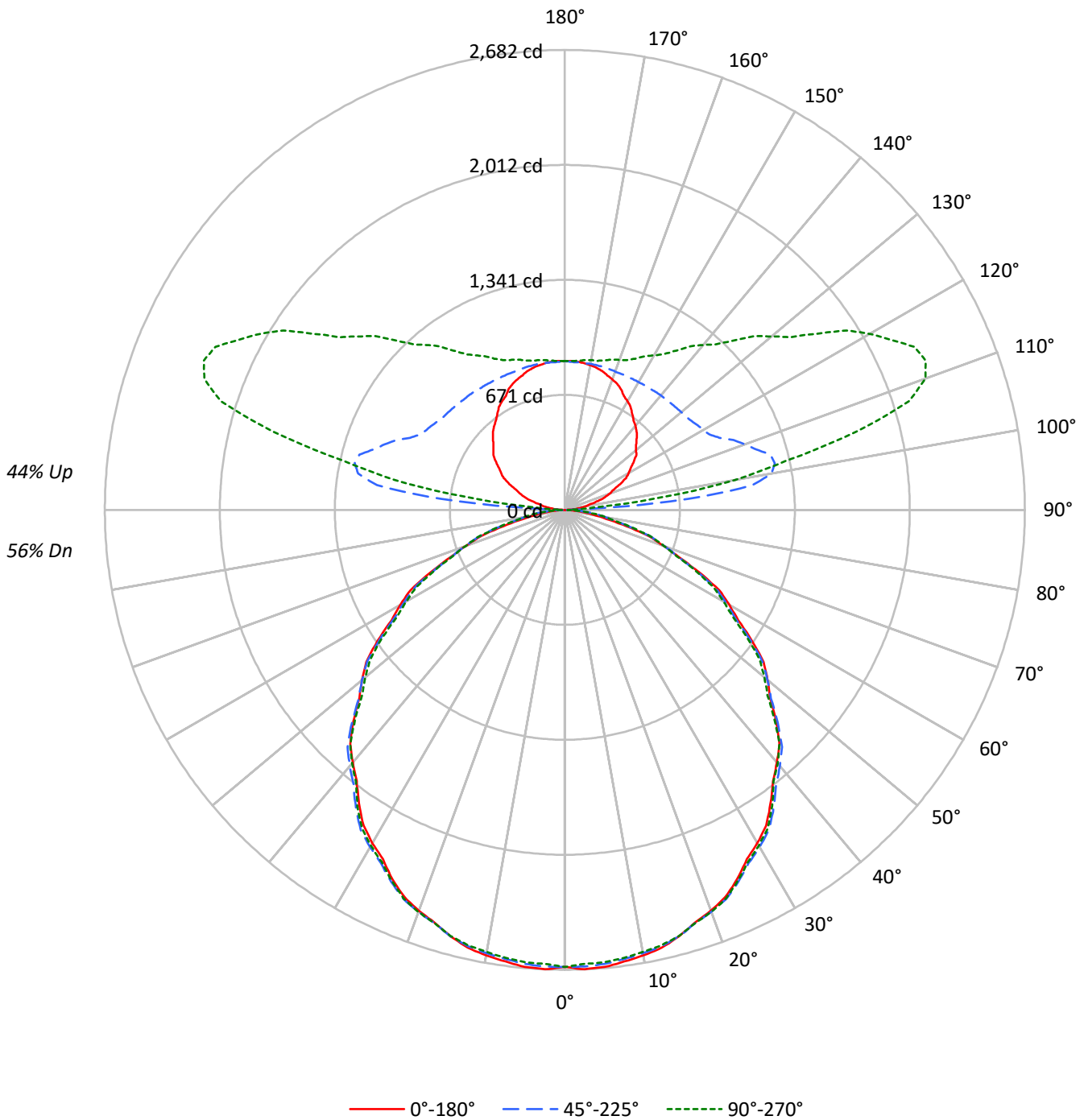
Lumens per Lamp: N/A
Luminaire Lumens: 12929.3 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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°	12298	12298	12298
5°	12390	12310	12264
10°	12360	12302	12268
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12097	12044
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10423
60°	10202	9998	9838
65°	9430	9241	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4721	6230	6296
85°	2874	5224	5224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	2.0
10°-20°	724.0	5.6
20°-30°	1096.4	8.5
30°-40°	1314.4	10.2
40°-50°	1340.3	10.4
50°-60°	1170.0	9.0
60°-70°	837.6	6.5
70°-80°	431.4	3.3
80°-90°	111.3	0.9
90°-100°	409.2	3.2
100°-110°	1125.7	8.7
110°-120°	1161.9	9.0
120°-130°	931.0	7.2
130°-140°	731.2	5.7
140°-150°	560.3	4.3
150°-160°	402.9	3.1
160°-170°	246.4	1.9
170°-180°	83.0	0.6
0°-30°	2072.7	16.0
0°-40°	3387.1	26.2
0°-60°	5897.3	45.6
0°-90°	7277.7	56.3
90°-120°	2696.8	20.9
90°-150°	4919.3	38.0
90°-180°	5652.0	43.7
0°-180°	12929.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2676	2649	2658	2651	2648	254
15°	2574	2553	2574	2574	2572	726
25°	2377	2360	2394	2387	2387	1094
35°	2091	2086	2123	2108	2108	1308
45°	1743	1738	1755	1733	1728	1341
55°	1333	1316	1316	1296	1296	1188
65°	864	845	847	839	839	854
75°	373	390	412	415	415	403
85°	54	83	99	101	99	74
90°	2	7	13	17	17	6
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2665.8	2665.8	2665.8	2665.8	2665.8
2.5°	2681.6	2658.4	2665.8	2659.7	2650.0
5°	2675.7	2649.1	2658.4	2650.9	2648.5
7.5°	2656.4	2629.9	2642.1	2637.1	2634.7
10°	2638.6	2612.1	2626.3	2621.3	2618.9
12.5°	2614.9	2590.3	2606.6	2601.6	2601.1
15°	2574.5	2552.7	2574.5	2574.4	2572.0
17.5°	2523.6	2503.8	2527.1	2528.5	2527.1
20°	2488.1	2466.4	2495.5	2493.1	2495.5
22.5°	2444.6	2426.8	2458.0	2451.6	2454.0
25°	2377.0	2360.1	2394.3	2386.9	2386.9
27.5°	2297.0	2285.0	2322.2	2314.3	2314.3
30°	2243.7	2231.6	2270.9	2261.0	2261.0
32.5°	2184.5	2176.3	2213.6	2201.7	2201.7
35°	2090.7	2085.8	2122.8	2108.0	2108.0
37.5°	1993.9	1989.6	2023.0	2005.1	1999.3
40°	1922.8	1920.4	1950.0	1930.2	1930.2
42.5°	1851.7	1849.3	1874.9	1851.2	1851.2
45°	1742.6	1737.8	1755.0	1732.7	1727.8
47.5°	1623.7	1618.8	1629.6	1605.3	1602.9
50°	1542.7	1537.9	1542.7	1520.4	1518.0
52.5°	1459.8	1451.1	1451.9	1429.6	1429.2
55°	1332.9	1316.0	1315.6	1295.9	1295.9
57.5°	1198.6	1176.4	1178.4	1161.5	1159.1
60°	1105.8	1081.7	1083.6	1068.7	1066.3
62.5°	1015.0	987.0	992.8	976.0	975.5
65°	863.9	844.6	846.6	839.2	839.2
67.5°	718.8	700.9	713.8	707.9	707.4
70°	612.1	600.1	617.1	617.0	614.6
72.5°	513.4	512.9	534.1	534.2	535.6
75°	372.7	389.6	412.2	414.7	414.7
77.5°	248.8	278.7	303.6	304.6	304.1
80°	177.7	211.5	234.5	239.4	237.0
82.5°	120.5	156.2	175.3	180.1	177.7
85°	54.3	83.3	98.7	101.1	98.7
87.5°	16.2	34.6	42.1	42.7	38.9
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)