

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: P562549

Luminaire Tested: **SQ4-PC3-025U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562549
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

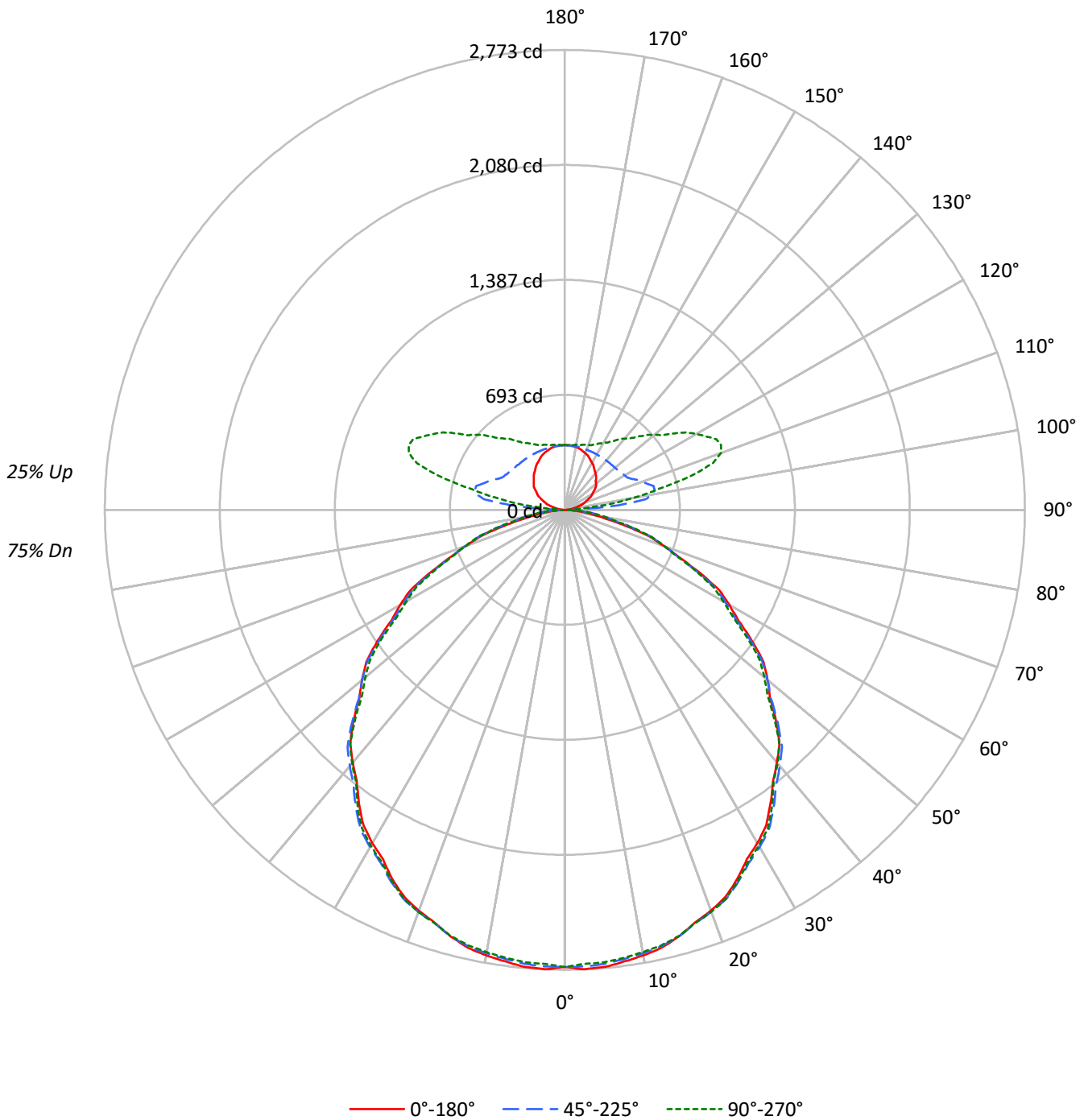
Lumens per Lamp: N/A
Luminaire Lumens: 10054.8 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	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	85	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	82	77	72	75	70	66	68	64	61	62	59	56	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	44	49	45	41	38				
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	39	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	54	43	35	30	39	33	28	36	31	27	33	29	25	23				
9	54	41	33	28	51	39	32	27	36	30	25	33	28	24	31	26	23	21				
10	50	37	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8400	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7509
55°	7389	7294	7184
60°	7032	6891	6781
65°	6500	6370	6314
70°	5691	5737	5714
75°	4579	5064	5095
80°	3255	4295	4339
85°	1980	3603	3603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	2.6
10°-20°	748.6	7.4
20°-30°	1133.6	11.3
30°-40°	1359.0	13.5
40°-50°	1385.8	13.8
50°-60°	1209.7	12.0
60°-70°	866.0	8.6
70°-80°	446.1	4.4
80°-90°	114.9	1.1
90°-100°	190.3	1.9
100°-110°	500.2	5.0
110°-120°	518.7	5.2
120°-130°	416.0	4.1
130°-140°	326.4	3.2
140°-150°	250.5	2.5
150°-160°	180.4	1.8
160°-170°	110.4	1.1
170°-180°	37.3	0.4
0°-30°	2143.0	21.3
0°-40°	3502.1	34.8
0°-60°	6097.5	60.6
0°-90°	7524.5	74.8
90°-120°	1209.1	12.0
90°-150°	2202.1	21.9
90°-180°	2530.0	25.2
0°-180°	10054.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2766	2739	2749	2741	2738	263
15°	2662	2639	2662	2662	2659	751
25°	2458	2440	2476	2468	2468	1131
35°	2162	2157	2195	2180	2180	1352
45°	1802	1797	1814	1792	1786	1387
55°	1378	1361	1360	1340	1340	1229
65°	893	873	875	868	868	883
75°	385	403	426	429	429	416
85°	56	86	102	105	102	76
90°	2	7	20	10	10	4
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2756.3	2756.3	2756.3	2756.3	2756.3
2.5°	2772.6	2748.7	2756.3	2749.9	2739.9
5°	2766.5	2739.0	2748.6	2740.9	2738.4
7.5°	2746.6	2719.1	2731.8	2726.6	2724.1
10°	2728.2	2700.8	2715.4	2710.3	2707.8
12.5°	2703.7	2678.3	2695.0	2689.9	2689.4
15°	2661.8	2639.4	2661.8	2661.8	2659.3
17.5°	2609.3	2588.8	2612.8	2614.3	2612.8
20°	2572.5	2550.1	2580.2	2577.7	2580.2
22.5°	2527.6	2509.1	2541.4	2534.8	2537.3
25°	2457.7	2440.2	2475.5	2467.9	2467.9
27.5°	2375.0	2362.5	2401.0	2392.9	2392.9
30°	2319.9	2307.4	2347.9	2337.7	2337.7
32.5°	2258.6	2250.1	2288.7	2276.5	2276.5
35°	2161.6	2156.6	2194.8	2179.5	2179.5
37.5°	2061.6	2057.1	2091.7	2073.2	2067.2
40°	1988.1	1985.6	2016.2	1995.7	1995.7
42.5°	1914.6	1912.1	1938.6	1914.1	1914.1
45°	1801.8	1796.8	1814.5	1791.5	1786.5
47.5°	1678.8	1673.8	1684.9	1659.8	1657.3
50°	1595.1	1590.1	1595.1	1572.0	1569.5
52.5°	1509.3	1500.3	1501.2	1478.2	1477.7
55°	1378.1	1360.7	1360.3	1339.9	1339.9
57.5°	1239.3	1216.3	1218.4	1201.0	1198.5
60°	1143.3	1118.4	1120.4	1105.0	1102.5
62.5°	1049.4	1020.5	1026.5	1009.1	1008.6
65°	893.2	873.3	875.4	867.7	867.7
67.5°	743.2	724.7	738.1	731.9	731.4
70°	632.9	620.4	638.0	638.0	635.5
72.5°	530.8	530.3	552.3	552.3	553.8
75°	385.4	402.8	426.2	428.8	428.8
77.5°	257.3	288.2	313.9	314.9	314.4
80°	183.8	218.7	242.5	247.5	245.0
82.5°	124.5	161.5	181.2	186.2	183.8
85°	56.1	86.1	102.1	104.6	102.1
87.5°	16.8	35.8	44.8	42.7	38.8
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)