

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: P562921

Luminaire Tested: **SQ4-PC3-100U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562921
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20963.3 lumens
Efficiency: N/A
Efficacy: 136.7 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

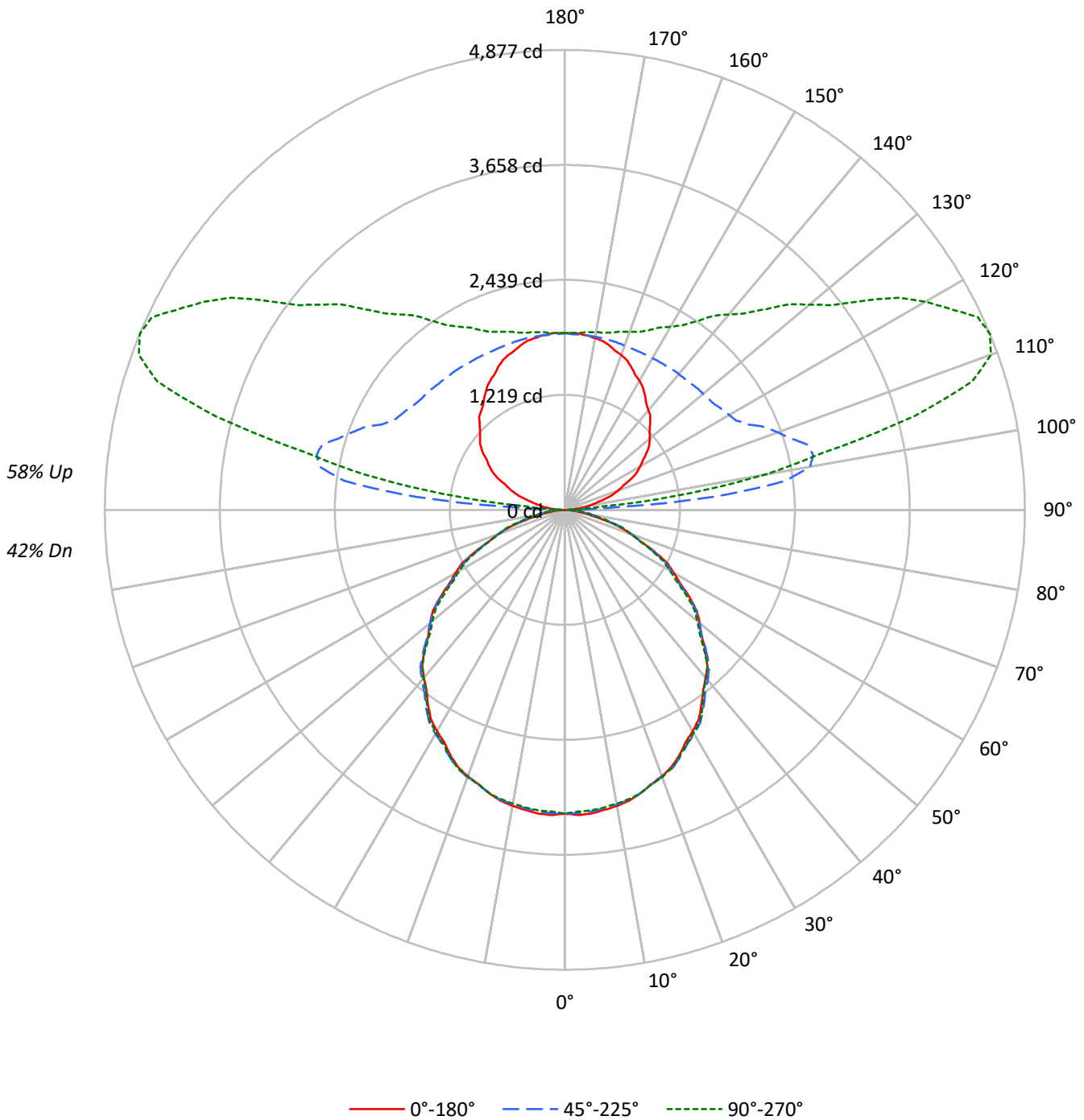
Input Watts (W): 153.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35				
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25				
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22				
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19				
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13				
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9561
40°	9326	9457	9361
45°	9156	9221	9078
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5017	5071
85°	2315	4210	4210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	1.5
10°-20°	874.6	4.2
20°-30°	1324.5	6.3
30°-40°	1587.9	7.6
40°-50°	1619.1	7.7
50°-60°	1413.4	6.7
60°-70°	1011.9	4.8
70°-80°	521.2	2.5
80°-90°	135.7	0.6
90°-100°	877.2	4.2
100°-110°	2421.6	11.6
110°-120°	2497.4	11.9
120°-130°	2006.9	9.6
130°-140°	1577.2	7.5
140°-150°	1209.7	5.8
150°-160°	869.4	4.1
160°-170°	531.7	2.5
170°-180°	179.2	0.9
0°-30°	2503.9	11.9
0°-40°	4091.8	19.5
0°-60°	7124.4	34.0
0°-90°	8793.1	41.9
90°-120°	5796.2	27.6
90°-150°	10589.9	50.5
90°-180°	12170.0	58.1
0°-180°	20963.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3232	3200	3212	3202	3200	307
15°	3110	3084	3110	3110	3107	877
25°	2872	2851	2892	2884	2884	1322
35°	2526	2520	2564	2546	2546	1580
45°	2105	2099	2120	2093	2087	1621
55°	1610	1590	1589	1566	1566	1435
65°	1044	1020	1023	1014	1014	1032
75°	450	471	498	501	501	487
85°	66	101	119	122	119	89
90°	6	12	24	27	30	12
95°	129	475	1591	654	426	138
105°	432	666	2664	4067	3830	459
115°	773	934	2146	4248	4831	760
125°	1061	1207	1945	3292	3863	944
135°	1277	1414	1891	2666	3006	988
145°	1480	1583	1867	2270	2442	927
155°	1669	1725	1852	2036	2101	769
165°	1807	1831	1861	1933	1948	509
175°	1873	1876	1864	1891	1885	178
180°	1873	1873	1873	1873	1873	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3220.4	3220.4	3220.4	3220.4	3220.4
2.5°	3239.5	3211.5	3220.4	3213.0	3201.4
5°	3232.4	3200.3	3211.5	3202.5	3199.6
7.5°	3209.1	3177.0	3191.8	3185.8	3182.9
10°	3187.6	3155.6	3172.7	3166.7	3163.8
12.5°	3159.0	3129.3	3148.9	3142.9	3142.3
15°	3110.1	3083.9	3110.1	3110.0	3107.1
17.5°	3048.7	3024.8	3052.9	3054.6	3052.9
20°	3005.7	2979.5	3014.7	3011.8	3014.7
22.5°	2953.3	2931.7	2969.4	2961.7	2964.6
25°	2871.6	2851.2	2892.4	2883.5	2883.5
27.5°	2774.9	2760.4	2805.4	2795.8	2795.8
30°	2710.5	2696.0	2743.3	2731.4	2731.4
32.5°	2639.0	2629.1	2674.2	2659.8	2659.8
35°	2525.7	2519.8	2564.4	2546.5	2546.5
37.5°	2408.8	2403.5	2444.0	2422.3	2415.3
40°	2322.9	2320.0	2355.7	2331.8	2331.8
42.5°	2237.0	2234.1	2265.0	2236.4	2236.4
45°	2105.2	2099.4	2120.1	2093.2	2087.3
47.5°	1961.5	1955.7	1968.6	1939.4	1936.4
50°	1863.7	1857.9	1863.7	1836.8	1833.9
52.5°	1763.5	1753.0	1753.9	1727.1	1726.5
55°	1610.2	1589.8	1589.3	1565.5	1565.5
57.5°	1448.0	1421.2	1423.6	1403.2	1400.3
60°	1335.9	1306.7	1309.1	1291.1	1288.2
62.5°	1226.2	1192.3	1199.3	1179.0	1178.4
65°	1043.7	1020.3	1022.8	1013.8	1013.8
67.5°	868.3	846.8	862.4	855.2	854.6
70°	739.5	724.9	745.5	745.4	742.5
72.5°	620.2	619.7	645.3	645.3	647.1
75°	450.3	470.7	498.0	501.0	501.0
77.5°	300.6	336.7	366.8	368.0	367.4
80°	214.7	255.5	283.3	289.2	286.3
82.5°	145.5	188.7	211.7	217.6	214.7
85°	65.6	100.6	119.3	122.2	119.3
87.5°	20.3	42.4	52.5	53.0	48.9
90°	6.0	11.9	24.0	27.0	30.0
92.5°	53.9	223.9	400.4	146.1	113.9
95°	128.9	474.6	1591.4	654.1	425.6
97.5°	213.4	531.6	2357.4	1814.9	1314.4
100°	275.7	565.8	2640.3	2658.9	2160.8
102.5°	335.7	604.7	2695.4	3285.3	2812.9
105°	431.6	666.0	2664.2	4067.4	3830.0
107.5°	533.4	742.1	2515.6	4444.6	4531.3
110°	605.4	792.9	2400.5	4525.7	4807.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	670.1	850.6	2292.6	4461.6	4876.6
115°	773.2	934.4	2145.8	4247.9	4831.0
117.5°	863.1	1023.7	2049.3	3947.0	4610.4
120°	923.0	1081.3	2010.9	3743.3	4411.4
122.5°	980.6	1131.8	1979.8	3553.1	4186.1
125°	1060.9	1207.4	1945.0	3291.6	3863.0
127.5°	1129.2	1275.7	1924.6	3070.4	3563.3
130°	1174.8	1321.3	1915.0	2935.2	3383.5
132.5°	1217.9	1357.4	1905.4	2821.5	3227.7
135°	1276.7	1414.4	1891.0	2666.0	3005.9
137.5°	1342.6	1468.0	1883.9	2535.4	2825.5
140°	1378.6	1501.6	1879.1	2448.3	2703.2
142.5°	1419.3	1533.0	1874.3	2370.9	2595.3
145°	1480.5	1583.0	1867.1	2269.6	2442.5
147.5°	1539.2	1628.9	1860.5	2184.2	2318.4
150°	1582.4	1655.6	1858.1	2133.3	2241.7
152.5°	1615.9	1684.5	1855.7	2089.7	2179.3
155°	1669.3	1725.0	1852.1	2036.4	2100.8
157.5°	1718.4	1761.2	1852.7	1997.5	2041.5
160°	1747.2	1785.3	1855.1	1975.7	2007.9
162.5°	1771.2	1804.6	1857.5	1956.4	1981.6
165°	1807.1	1830.6	1861.1	1933.3	1948.0
167.5°	1834.7	1848.8	1864.1	1919.3	1924.0
170°	1849.1	1860.8	1864.1	1912.0	1912.0
172.5°	1861.1	1868.1	1864.1	1902.4	1900.0
175°	1873.1	1876.0	1864.1	1890.9	1885.1
177.5°	1877.9	1875.5	1863.5	1880.2	1875.5
180°	1873.1	1873.1	1873.1	1873.1	1873.1

(END OF REPORT)