

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: P563432

Luminaire Tested: **SQ4-PP3-075U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563432
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

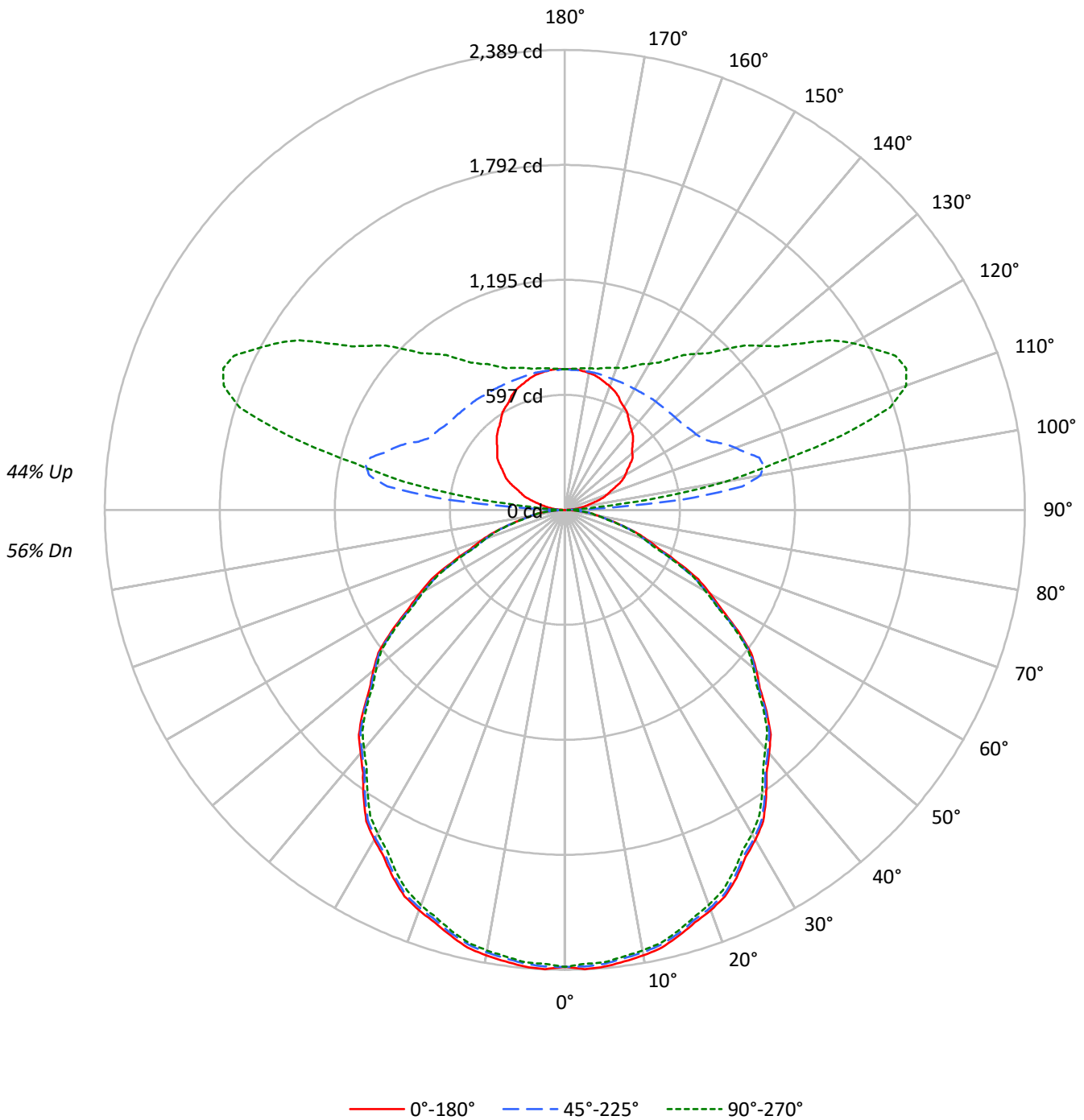
Lumens per Lamp: N/A
Luminaire Lumens: 10842.1 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	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	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10350
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8717	8651
60°	8042	7812	7774
65°	7085	6791	6768
70°	6117	5864	5864
75°	5265	5192	5117
80°	4644	4697	4588
85°	3636	3964	3964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	2.1
10°-20°	640.9	5.9
20°-30°	960.0	8.9
30°-40°	1126.0	10.4
40°-50°	1129.6	10.4
50°-60°	963.6	8.9
60°-70°	628.4	5.8
70°-80°	315.3	2.9
80°-90°	89.1	0.8
90°-100°	344.9	3.2
100°-110°	949.1	8.8
110°-120°	979.6	9.0
120°-130°	784.8	7.2
130°-140°	616.4	5.7
140°-150°	472.4	4.4
150°-160°	339.7	3.1
160°-170°	207.7	1.9
170°-180°	70.0	0.6
0°-30°	1825.4	16.8
0°-40°	2951.4	27.2
0°-60°	5044.6	46.5
0°-90°	6077.5	56.1
90°-120°	2273.6	21.0
90°-150°	4147.3	38.3
90°-180°	4765.0	43.9
0°-180°	10842.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2382	2360	2368	2359	2359	226
15°	2291	2268	2278	2270	2266	646
25°	2110	2085	2095	2076	2074	970
35°	1822	1804	1810	1789	1787	1138
45°	1481	1471	1471	1456	1456	1141
55°	1098	1094	1084	1078	1076	976
65°	649	637	622	618	620	648
75°	295	295	291	289	287	321
85°	69	75	75	75	75	81
90°	2	6	11	14	14	6
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.8	2373.8	2373.8	2373.8	2373.8
2.5°	2388.8	2369.2	2373.8	2370.2	2360.5
5°	2382.1	2359.7	2367.5	2359.2	2359.2
7.5°	2365.9	2341.5	2349.2	2340.9	2340.5
10°	2350.9	2326.5	2334.3	2325.9	2323.9
12.5°	2329.3	2304.9	2314.3	2304.3	2303.9
15°	2290.6	2268.2	2278.1	2269.7	2265.6
17.5°	2246.9	2222.5	2234.4	2222.7	2221.1
20°	2213.6	2189.2	2201.1	2184.5	2184.5
22.5°	2173.7	2149.2	2162.8	2141.2	2141.2
25°	2109.6	2085.2	2095.0	2076.2	2074.2
27.5°	2033.4	2009.4	2019.7	1998.5	1998.1
30°	1978.5	1956.1	1968.1	1945.2	1943.1
32.5°	1918.6	1897.8	1906.5	1883.6	1881.6
35°	1822.5	1804.2	1810.0	1789.1	1787.1
37.5°	1721.4	1702.6	1709.3	1691.4	1690.6
40°	1649.8	1637.6	1639.4	1624.7	1620.7
42.5°	1583.2	1569.4	1571.2	1556.6	1555.8
45°	1481.3	1471.1	1470.9	1456.3	1456.3
47.5°	1373.1	1365.4	1363.1	1351.0	1350.6
50°	1298.2	1292.1	1289.9	1279.4	1277.4
52.5°	1220.0	1217.1	1210.0	1201.2	1200.8
55°	1098.5	1094.4	1083.9	1077.6	1075.6
57.5°	966.6	958.4	946.6	937.5	939.1
60°	871.7	863.6	846.7	842.6	842.6
62.5°	780.2	770.4	753.5	747.8	751.0
65°	649.1	636.9	622.1	617.9	620.0
67.5°	530.1	519.1	503.1	503.0	501.4
70°	453.5	447.4	434.8	434.8	434.8
72.5°	385.3	382.5	373.2	373.2	371.6
75°	295.4	295.4	291.3	289.1	287.1
77.5°	221.4	222.2	220.1	217.9	214.3
80°	174.8	178.8	176.8	174.7	172.7
82.5°	131.5	135.6	135.2	131.5	131.1
85°	68.7	74.8	74.9	74.9	74.9
87.5°	18.6	26.0	28.8	29.5	31.1
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)