

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: P563240

Luminaire Tested: **SQ4-PP3-025U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563240
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

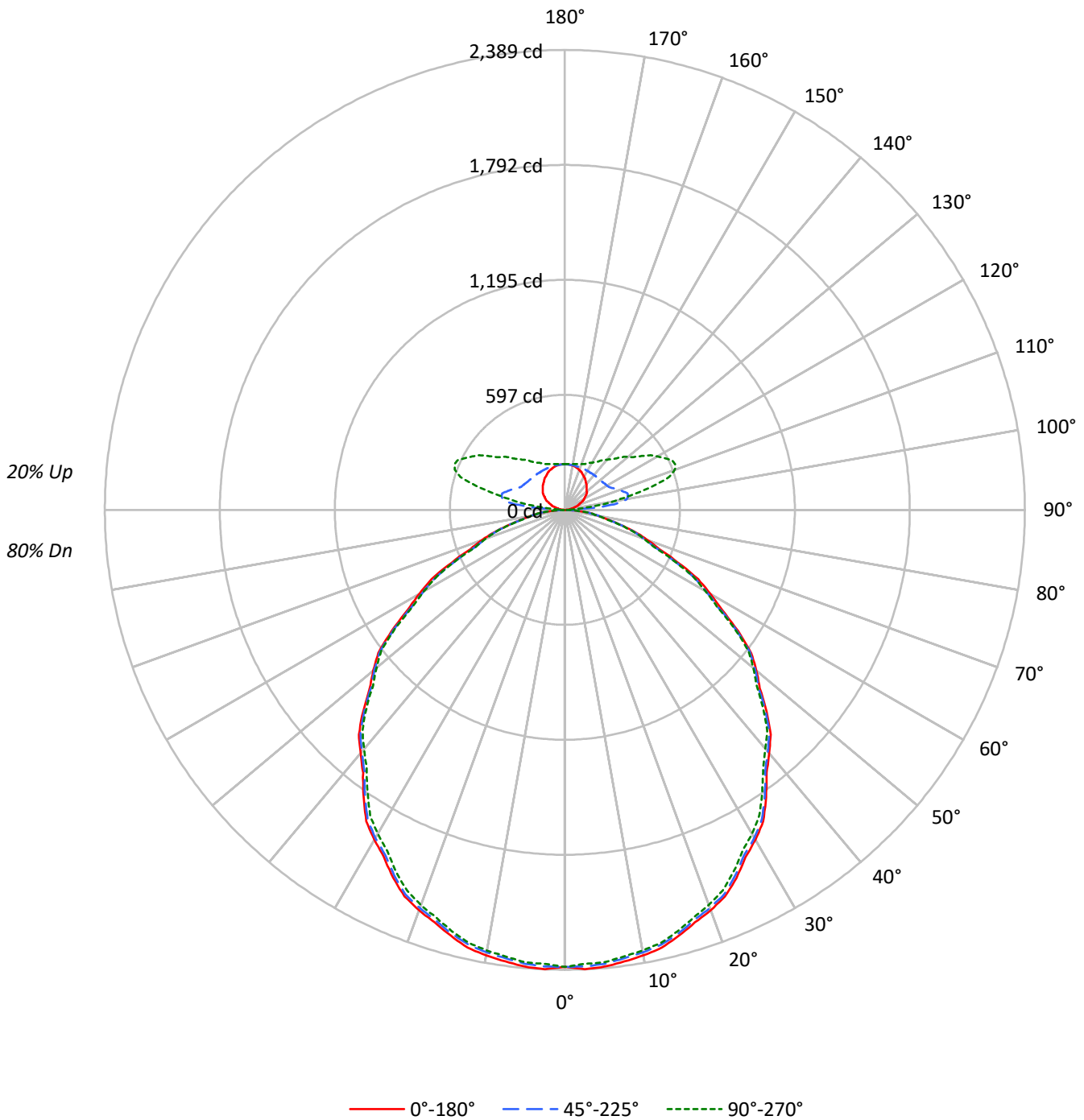
Lumens per Lamp: N/A
Luminaire Lumens: 7614.2 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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	2.9
10°-20°	640.9	8.4
20°-30°	960.0	12.6
30°-40°	1126.0	14.8
40°-50°	1129.6	14.8
50°-60°	963.6	12.7
60°-70°	628.4	8.3
70°-80°	315.3	4.1
80°-90°	88.5	1.2
90°-100°	115.6	1.5
100°-110°	303.9	4.0
110°-120°	315.1	4.1
120°-130°	252.8	3.3
130°-140°	198.3	2.6
140°-150°	152.2	2.0
150°-160°	109.6	1.4
160°-170°	67.1	0.9
170°-180°	22.7	0.3
0°-30°	1825.4	24.0
0°-40°	2951.4	38.8
0°-60°	5044.6	66.3
0°-90°	6076.9	79.8
90°-120°	734.6	9.6
90°-150°	1337.9	17.6
90°-180°	1537.0	20.2
0°-180°	7614.2	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	4	12	6	6	4
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	



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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	25.7	29.1	27.9	29.5
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)