

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: P564588

Luminaire Tested: **SQ4-PW1-025U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564588
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

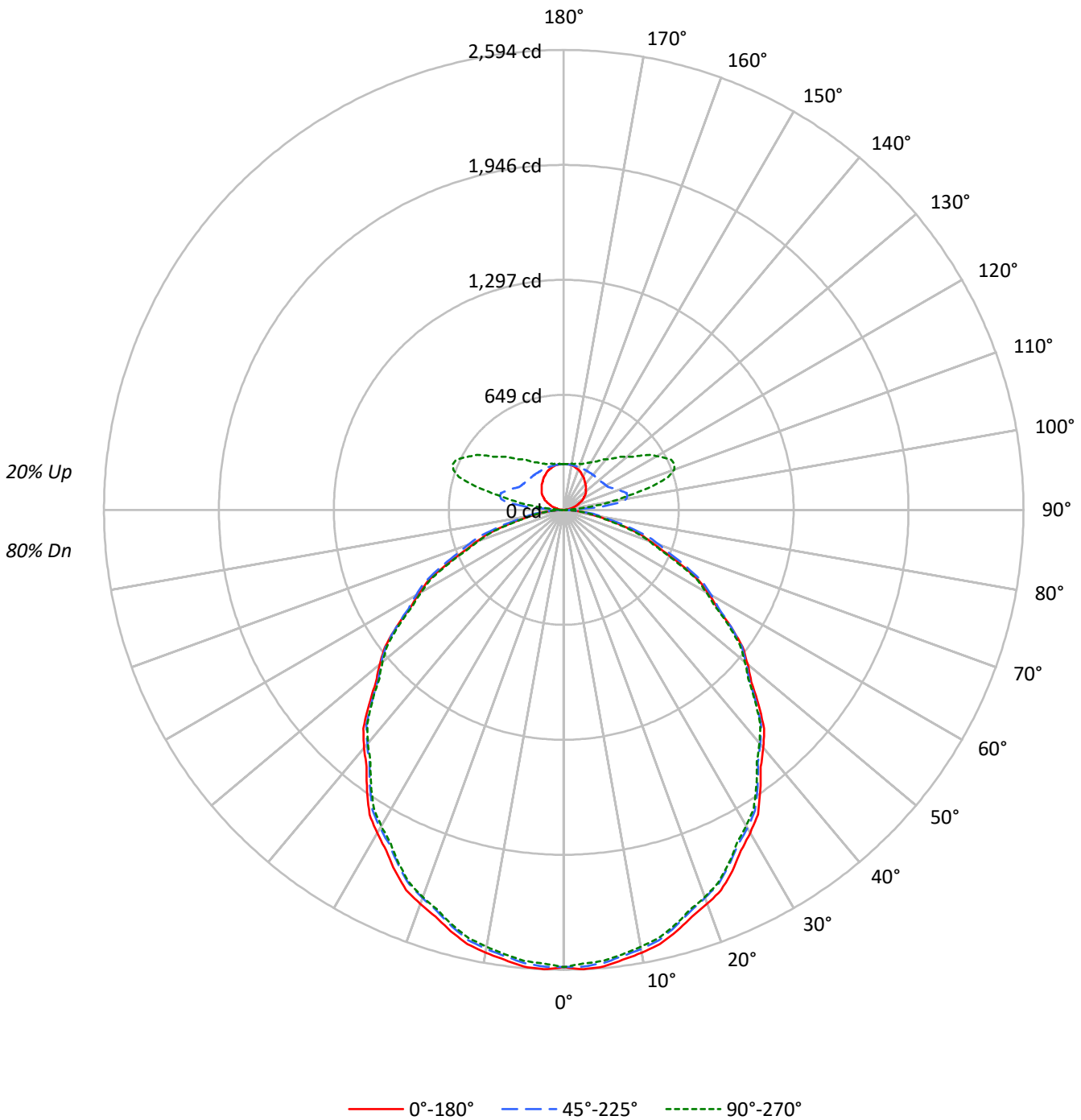
Lumens per Lamp: N/A
Luminaire Lumens: 8241.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	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	92	89	88	85	83	81	79	77	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11879	11827
10°	11878	11782	11719
15°	11752	11622	11579
20°	11612	11433	11411
25°	11450	11242	11207
30°	11208	11038	10966
35°	10889	10736	10672
40°	10550	10385	10345
45°	10139	10006	9961
50°	9719	9638	9572
55°	9265	9265	9119
60°	8700	8867	8554
65°	7962	8358	7763
70°	7018	7692	6834
75°	5994	6885	5832
80°	4649	5794	4707
85°	3006	4451	3970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	2.9
10°-20°	685.6	8.3
20°-30°	1017.0	12.3
30°-40°	1190.0	14.4
40°-50°	1184.7	14.4
50°-60°	1023.0	12.4
60°-70°	736.4	8.9
70°-80°	386.2	4.7
80°-90°	97.1	1.2
90°-100°	126.2	1.5
100°-110°	331.8	4.0
110°-120°	344.1	4.2
120°-130°	276.0	3.3
130°-140°	216.6	2.6
140°-150°	166.2	2.0
150°-160°	119.7	1.5
160°-170°	73.2	0.9
170°-180°	24.7	0.3
0°-30°	1945.5	23.6
0°-40°	3135.5	38.0
0°-60°	5343.2	64.8
0°-90°	6562.9	79.6
90°-120°	802.1	9.7
90°-150°	1460.9	17.7
90°-180°	1679.0	20.4
0°-180°	8241.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2586	2557	2565	2558	2554	245
15°	2461	2430	2434	2429	2424	694
25°	2250	2212	2209	2195	2202	1034
35°	1934	1907	1906	1888	1895	1209
45°	1554	1541	1534	1529	1527	1199
55°	1152	1150	1152	1136	1134	1028
65°	729	752	766	736	711	723
75°	336	367	386	360	327	360
85°	57	75	84	79	75	75
90°	2	5	13	7	7	3
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	



TEST NUMBER: P564588

CATALOG NUMBER: SQ4-PW1-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2593.5	2572.2	2578.9	2573.2	2560.8
5°	2585.8	2556.9	2565.3	2558.4	2554.0
7.5°	2559.4	2532.7	2539.0	2531.6	2529.0
10°	2535.8	2509.1	2515.3	2506.1	2501.7
12.5°	2508.5	2480.1	2486.2	2477.1	2474.4
15°	2460.8	2429.7	2433.5	2428.9	2424.4
17.5°	2405.4	2373.8	2374.5	2367.2	2366.3
20°	2365.4	2332.0	2329.0	2320.0	2324.5
22.5°	2321.7	2286.6	2283.6	2271.0	2277.2
25°	2249.5	2211.7	2208.6	2195.1	2201.8
27.5°	2165.9	2128.5	2128.6	2109.7	2116.8
30°	2104.1	2068.5	2072.2	2049.7	2058.6
32.5°	2038.6	2006.6	2008.6	1986.1	1995.0
35°	1933.6	1907.0	1906.4	1888.4	1895.0
37.5°	1826.4	1802.8	1799.1	1788.7	1790.5
40°	1751.9	1731.9	1724.6	1717.8	1717.8
42.5°	1673.7	1655.5	1648.3	1643.2	1641.4
45°	1554.2	1540.9	1533.7	1529.1	1526.9
47.5°	1436.0	1423.6	1417.4	1414.2	1411.9
50°	1354.2	1345.3	1342.9	1336.0	1333.8
52.5°	1272.4	1267.1	1264.7	1256.0	1253.8
55°	1152.0	1149.8	1152.0	1136.1	1133.8
57.5°	1026.6	1030.1	1037.5	1016.0	1010.7
60°	943.0	951.9	961.1	935.9	927.1
62.5°	857.5	871.7	884.8	855.9	843.4
65°	729.4	751.6	765.7	735.6	711.2
67.5°	605.8	633.3	650.3	617.9	590.3
70°	520.3	551.4	570.3	537.8	506.7
72.5°	445.8	480.5	495.8	465.1	434.0
75°	336.3	367.4	386.3	360.5	327.2
77.5°	238.6	267.9	283.6	261.1	233.6
80°	175.0	206.1	218.1	199.4	177.2
82.5°	124.1	149.8	158.1	146.9	131.8
85°	56.8	74.6	84.1	79.4	75.0
87.5°	14.9	28.0	37.2	35.9	37.7
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

TEST NUMBER: P564588

CATALOG NUMBER: SQ4-PW1-025U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)