

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: P564612

Luminaire Tested: **SQ4-PW1-025U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564612
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-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

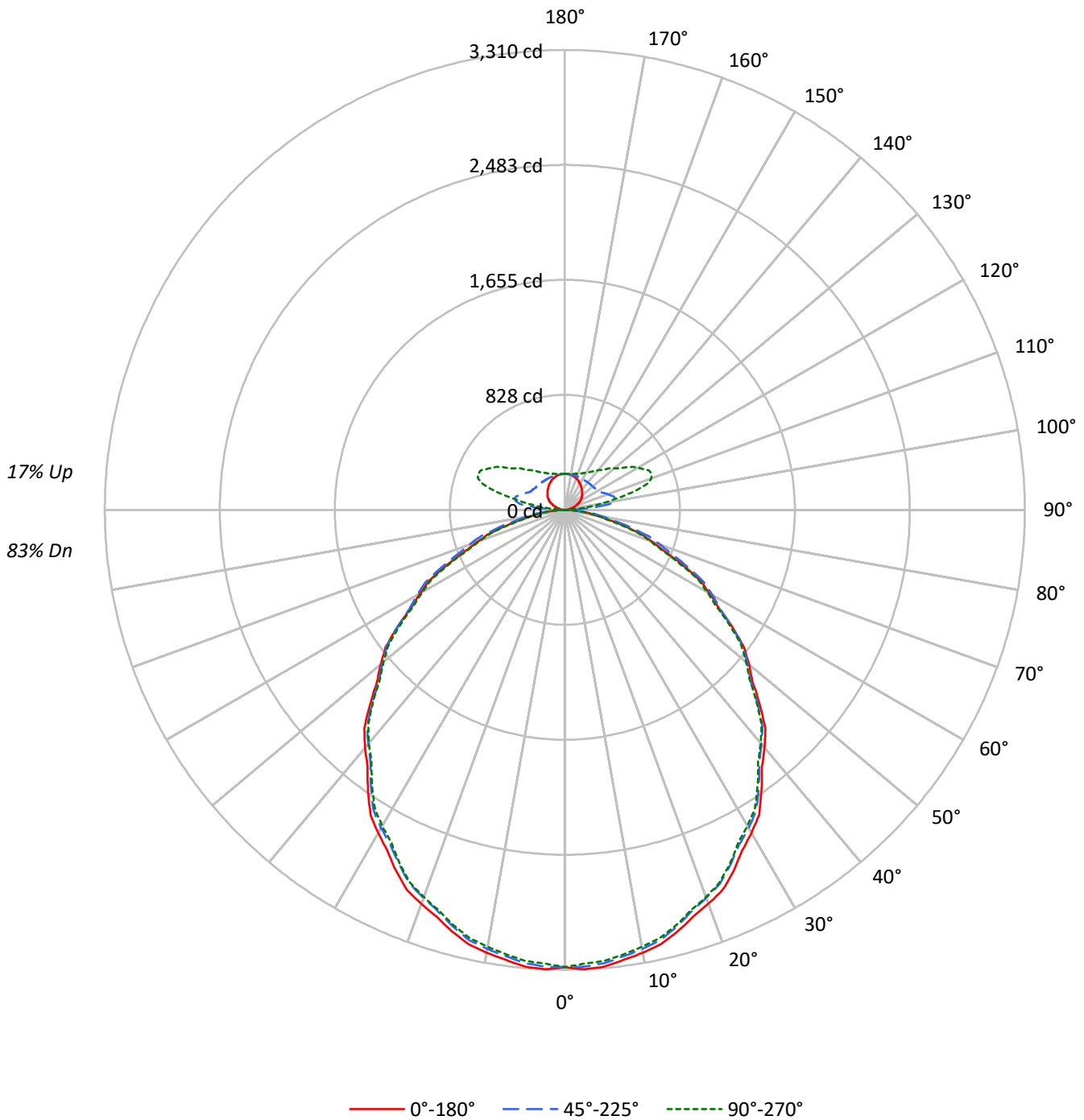
Lumens per Lamp: N/A
Luminaire Lumens: 10053.4 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15160	15092
10°	15158	15036	14955
15°	14998	14831	14776
20°	14818	14591	14562
25°	14611	14346	14301
30°	14303	14087	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12299	12215
55°	11824	11824	11637
60°	11102	11316	10916
65°	10160	10667	9907
70°	8956	9816	8721
75°	7648	8785	7441
80°	5932	7396	6009
85°	3837	5679	5065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	3.1
10°-20°	875.0	8.7
20°-30°	1297.8	12.9
30°-40°	1518.6	15.1
40°-50°	1511.8	15.0
50°-60°	1305.5	13.0
60°-70°	939.7	9.3
70°-80°	492.8	4.9
80°-90°	123.6	1.2
90°-100°	126.2	1.3
100°-110°	331.8	3.3
110°-120°	344.1	3.4
120°-130°	276.0	2.7
130°-140°	216.6	2.2
140°-150°	166.2	1.7
150°-160°	119.7	1.2
160°-170°	73.2	0.7
170°-180°	24.7	0.2
0°-30°	2482.7	24.7
0°-40°	4001.3	39.8
0°-60°	6818.7	67.8
0°-90°	8374.8	83.3
90°-120°	802.1	8.0
90°-150°	1460.9	14.5
90°-180°	1679.0	16.7
0°-180°	10053.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3300	3263	3274	3265	3259	313
15°	3140	3101	3106	3100	3094	885
25°	2871	2822	2818	2801	2810	1320
35°	2468	2434	2433	2410	2418	1543
45°	1983	1966	1957	1951	1949	1530
55°	1470	1467	1470	1450	1447	1312
65°	931	959	977	939	908	922
75°	429	469	493	460	418	460
85°	72	95	107	101	96	96
90°	2	5	13	7	7	4
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3291.1	3291.1	3291.1	3291.1	3291.1
2.5°	3309.6	3282.4	3291.1	3283.8	3267.9
5°	3299.8	3262.9	3273.7	3264.9	3259.2
7.5°	3266.1	3232.1	3240.1	3230.7	3227.3
10°	3236.0	3202.0	3209.9	3198.2	3192.5
12.5°	3201.2	3164.9	3172.8	3161.1	3157.7
15°	3140.3	3100.6	3105.5	3099.6	3093.9
17.5°	3069.6	3029.3	3030.1	3020.8	3019.7
20°	3018.5	2976.0	2972.1	2960.7	2966.3
22.5°	2962.8	2918.0	2914.1	2898.1	2906.0
25°	2870.6	2822.4	2818.4	2801.2	2809.7
27.5°	2763.9	2716.3	2716.4	2692.2	2701.3
30°	2685.1	2639.7	2644.5	2615.7	2627.1
32.5°	2601.6	2560.7	2563.3	2534.5	2545.9
35°	2467.6	2433.6	2432.8	2409.8	2418.3
37.5°	2330.7	2300.7	2295.9	2282.6	2284.9
40°	2235.6	2210.1	2200.8	2192.1	2192.1
42.5°	2135.9	2112.6	2103.4	2097.0	2094.7
45°	1983.3	1966.3	1957.3	1951.4	1948.6
47.5°	1832.6	1816.7	1808.8	1804.7	1801.8
50°	1728.2	1716.8	1713.7	1704.9	1702.1
52.5°	1623.8	1617.0	1613.9	1602.9	1600.0
55°	1470.1	1467.3	1470.1	1449.8	1446.9
57.5°	1310.1	1314.6	1324.0	1296.6	1289.8
60°	1203.3	1214.7	1226.5	1194.4	1183.1
62.5°	1094.3	1112.5	1129.1	1092.2	1076.3
65°	930.8	959.1	977.2	938.8	907.6
67.5°	773.0	808.2	829.9	788.5	753.3
70°	664.0	703.7	727.8	686.3	646.6
72.5°	568.9	613.1	632.7	593.5	553.8
75°	429.1	468.8	492.9	460.1	417.5
77.5°	304.5	341.9	361.9	333.2	298.1
80°	223.3	263.0	278.4	254.5	226.2
82.5°	158.3	191.2	201.8	187.5	168.2
85°	72.5	95.2	107.3	101.4	95.7
87.5°	18.9	35.4	46.7	45.5	47.7
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

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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)