

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: P563909

Luminaire Tested: **SQ4-PR1-025U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563909
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

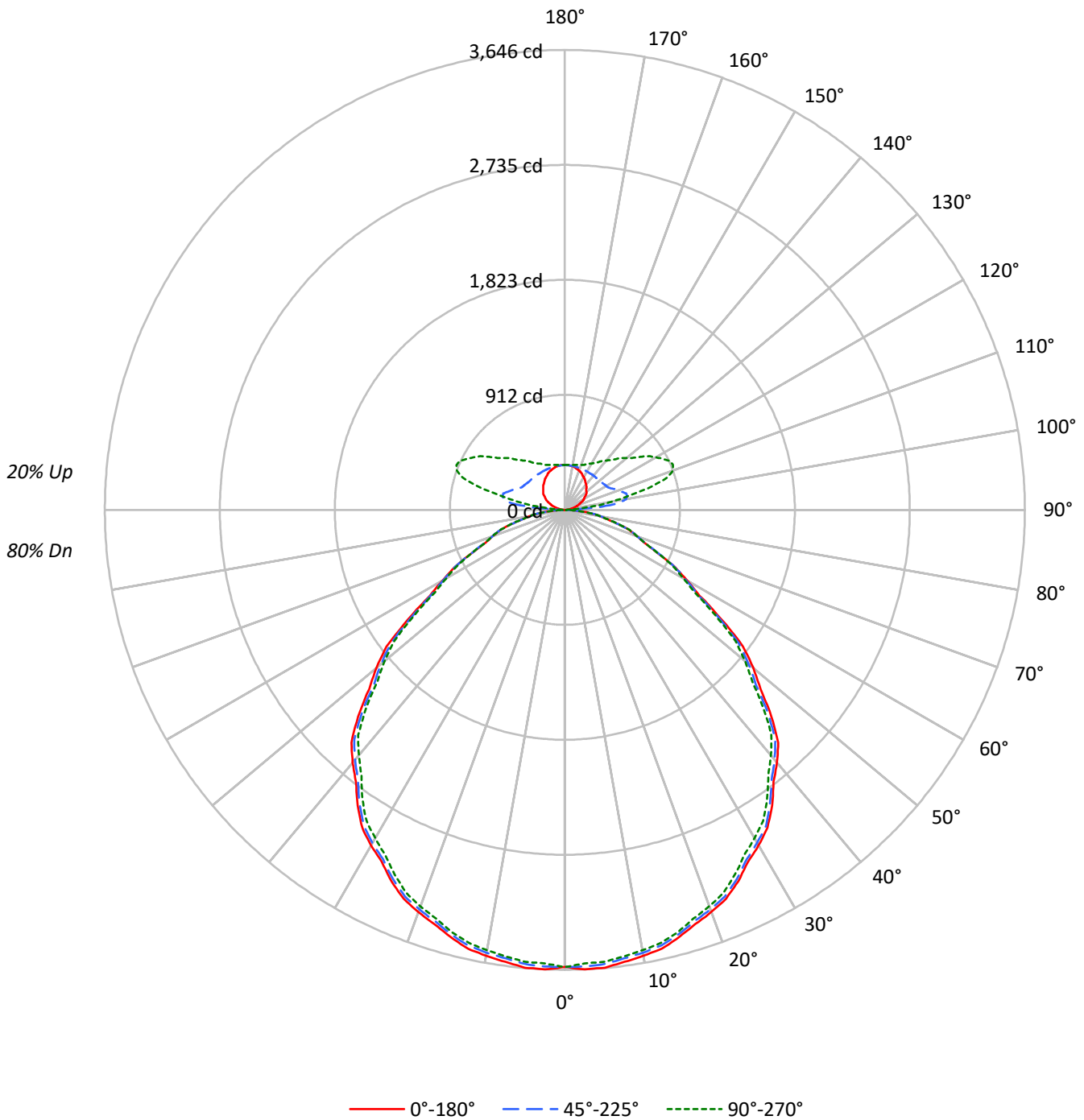
Lumens per Lamp: N/A
Luminaire Lumens: 11367.3 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 123.6
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11160	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10388	10200
45°	10073	9897	9693
50°	9319	9095	8916
55°	8134	7950	7783
60°	6854	6797	6662
65°	5929	5951	5906
70°	5445	5473	5473
75°	5229	5229	5266
80°	4920	4975	4920
85°	3966	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	3.0
10°-20°	980.5	8.6
20°-30°	1478.9	13.0
30°-40°	1762.1	15.5
40°-50°	1737.3	15.3
50°-60°	1327.7	11.7
60°-70°	821.7	7.2
70°-80°	466.7	4.1
80°-90°	143.9	1.3
90°-100°	173.4	1.5
100°-110°	455.8	4.0
110°-120°	472.7	4.2
120°-130°	379.1	3.3
130°-140°	297.5	2.6
140°-150°	228.3	2.0
150°-160°	164.5	1.4
160°-170°	100.6	0.9
170°-180°	34.0	0.3
0°-30°	2802.1	24.7
0°-40°	4564.2	40.2
0°-60°	7629.2	67.1
0°-90°	9061.4	79.7
90°-120°	1101.9	9.7
90°-150°	2006.9	17.7
90°-180°	2306.0	20.3
0°-180°	11367.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3624	3624	3624	3624	3624	
5°	3643	3603	3615	3602	3596	346
15°	3505	3469	3484	3471	3465	989
25°	3249	3210	3228	3193	3190	1495
35°	2862	2829	2837	2800	2797	1786
45°	2316	2286	2276	2235	2229	1774
55°	1517	1493	1483	1458	1452	1359
65°	815	809	818	812	812	825
75°	440	440	440	443	443	465
85°	112	118	125	125	125	131
90°	2	7	18	9	9	6
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	621	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3624.0	3624.0	3624.0	3624.0	3624.0
2.5°	3646.4	3614.7	3624.0	3616.1	3599.0
5°	3642.7	3603.0	3614.6	3602.0	3595.9
7.5°	3614.6	3575.5	3587.1	3574.5	3570.9
10°	3589.6	3553.0	3564.6	3552.0	3545.9
12.5°	3562.1	3523.1	3537.2	3522.1	3515.9
15°	3505.3	3468.7	3483.5	3470.9	3464.8
17.5°	3442.9	3403.8	3418.6	3404.0	3396.1
20°	3393.0	3356.3	3371.1	3349.2	3346.1
22.5°	3338.0	3301.4	3316.2	3286.8	3286.2
25°	3249.4	3209.7	3227.5	3193.1	3190.1
27.5°	3143.9	3107.3	3122.0	3087.0	3083.3
30°	3071.5	3034.8	3049.6	3012.0	3005.9
32.5°	2989.1	2954.9	2967.2	2929.7	2926.0
35°	2862.3	2828.8	2837.4	2799.8	2796.8
37.5°	2718.1	2687.6	2692.5	2651.3	2648.2
40°	2615.7	2585.2	2587.6	2543.9	2540.8
42.5°	2503.4	2472.8	2470.3	2426.5	2423.5
45°	2316.1	2285.6	2275.5	2234.8	2228.7
47.5°	2102.6	2072.1	2053.3	2020.1	2015.8
50°	1947.8	1917.2	1900.9	1872.6	1863.5
52.5°	1780.4	1749.9	1736.1	1710.3	1701.2
55°	1517.0	1492.6	1482.7	1457.6	1451.5
57.5°	1266.7	1250.2	1247.3	1222.9	1220.5
60°	1114.3	1105.2	1105.0	1083.1	1083.1
62.5°	984.5	977.8	982.6	968.2	965.8
65°	814.7	808.6	817.8	811.6	811.6
67.5°	680.5	680.5	686.1	683.6	683.6
70°	605.6	605.6	608.7	608.7	608.7
72.5°	538.1	535.7	543.7	543.7	541.3
75°	440.1	440.1	440.1	443.2	443.2
77.5°	342.7	343.3	345.9	345.2	342.7
80°	277.8	280.9	280.9	277.8	277.8
82.5°	212.9	215.9	216.0	215.3	212.9
85°	112.4	118.5	124.9	124.9	124.9
87.5°	32.9	43.6	53.6	51.7	49.3
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	912.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)