

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: P564005

Luminaire Tested: **SQ4-PR1-050U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564005
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

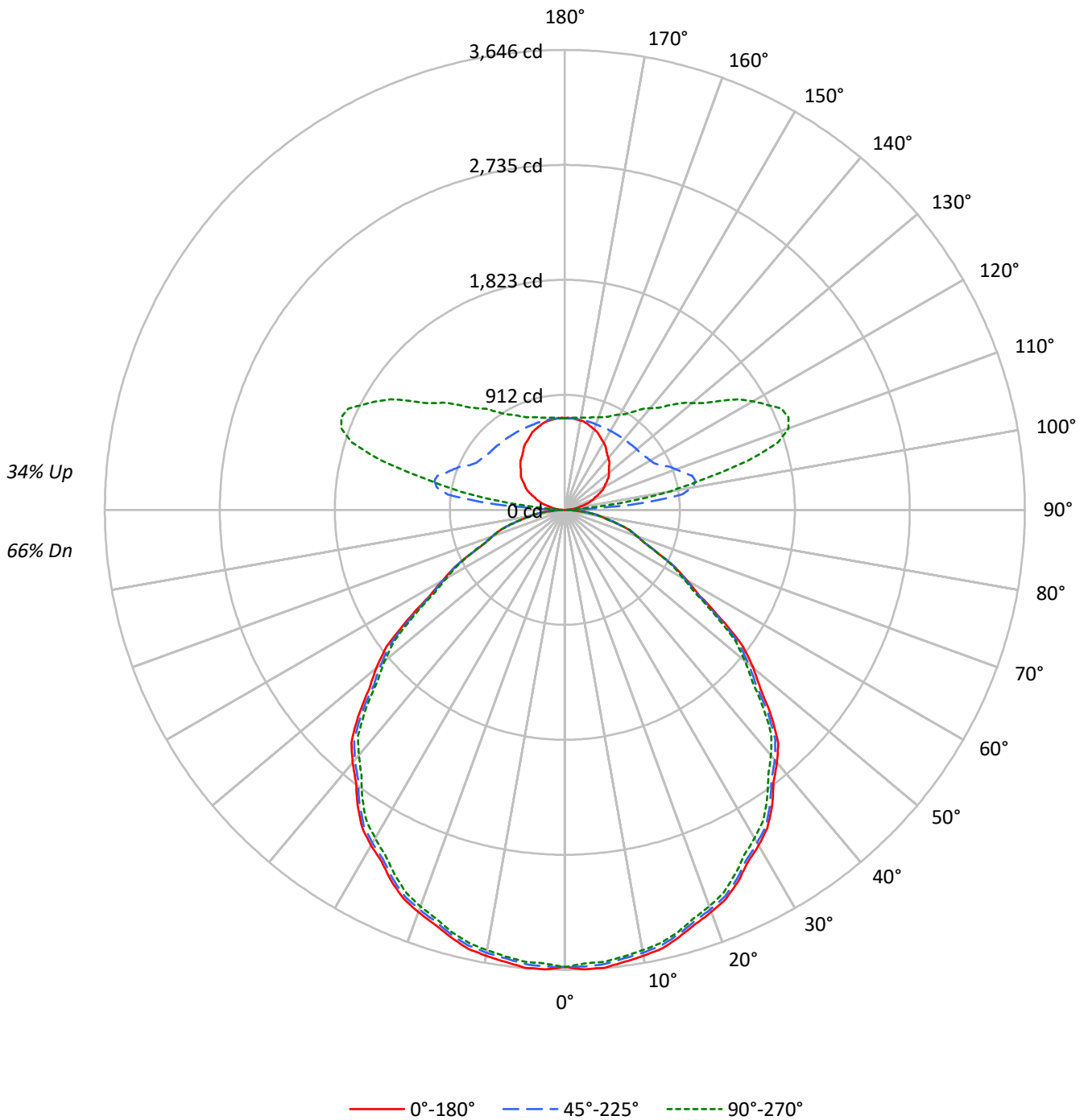
Lumens per Lamp: N/A
Luminaire Lumens: 13817.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 134.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	62	60	56				
2	93	85	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51	48				
3	85	76	68	62	80	71	65	60	64	58	54	56	52	49	50	47	44	41				
4	78	67	59	53	73	64	56	51	57	51	47	51	46	42	45	41	38	35				
5	72	60	52	46	67	57	50	44	51	45	40	46	41	37	40	37	34	31				
6	66	54	46	40	62	51	44	38	46	40	35	41	36	33	37	33	30	27				
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	26	24				
8	57	45	37	31	54	42	35	30	38	32	28	34	30	26	31	27	24	22				
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	26	22	20	18				

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	2.5
10°-20°	980.5	7.1
20°-30°	1478.9	10.7
30°-40°	1762.1	12.8
40°-50°	1737.3	12.6
50°-60°	1327.7	9.6
60°-70°	821.7	5.9
70°-80°	466.7	3.4
80°-90°	144.8	1.0
90°-100°	349.6	2.5
100°-110°	949.7	6.9
110°-120°	976.5	7.1
120°-130°	780.7	5.7
130°-140°	613.5	4.4
140°-150°	470.4	3.4
150°-160°	338.3	2.4
160°-170°	206.9	1.5
170°-180°	69.7	0.5
0°-30°	2802.1	20.3
0°-40°	4564.2	33.0
0°-60°	7629.2	55.2
0°-90°	9062.3	65.6
90°-120°	2275.9	16.5
90°-150°	4140.4	30.0
90°-180°	4755.0	34.4
0°-180°	13817.6	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	9	16	21	21	8
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

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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	44.1	53.2	54.1	51.7
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)