

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: P563805

Luminaire Tested: **SQ4-PP3-150U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563805
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

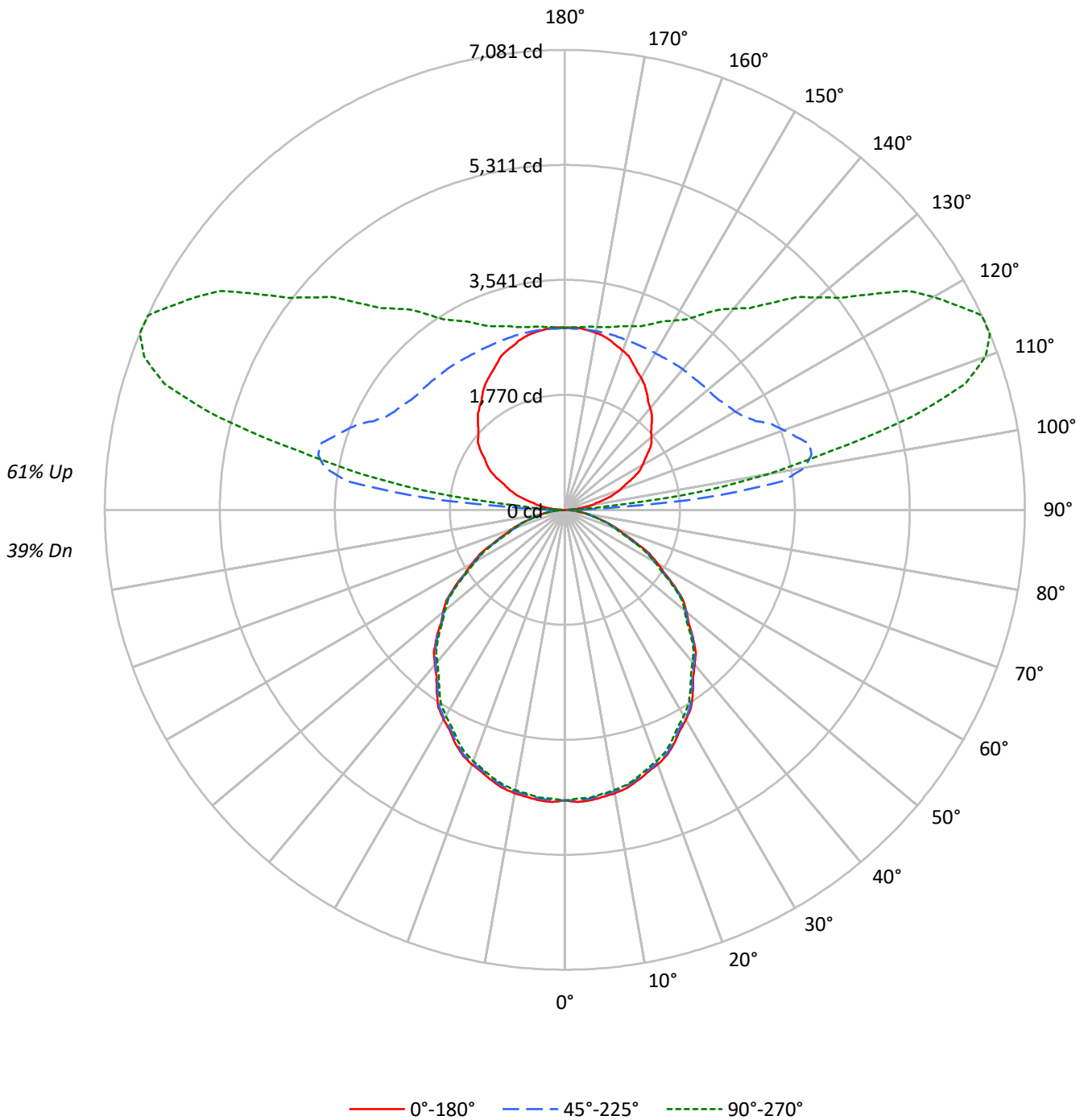
Lumens per Lamp: N/A
Luminaire Lumens: 29530.2 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 223.7
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13680
15°	13747	13672	13597
20°	13656	13579	13476
25°	13494	13401	13268
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11708	11633	11521
55°	11102	10955	10871
60°	10107	9817	9769
65°	8904	8533	8505
70°	7687	7370	7370
75°	6617	6523	6431
80°	5834	5903	5765
85°	4566	4982	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.4
10°-20°	1208.1	4.1
20°-30°	1809.6	6.1
30°-40°	2122.6	7.2
40°-50°	2129.2	7.2
50°-60°	1816.4	6.2
60°-70°	1184.6	4.0
70°-80°	594.3	2.0
80°-90°	170.3	0.6
90°-100°	1302.7	4.4
100°-110°	3522.1	11.9
110°-120°	3703.0	12.5
120°-130°	3007.8	10.2
130°-140°	2359.4	8.0
140°-150°	1810.8	6.1
150°-160°	1302.3	4.4
160°-170°	795.6	2.7
170°-180°	268.2	0.9
0°-30°	3440.9	11.7
0°-40°	5563.5	18.8
0°-60°	9509.1	32.2
0°-90°	11458.3	38.8
90°-120°	8527.7	28.9
90°-150°	15705.8	53.2
90°-180°	18072.0	61.2
0°-180°	29530.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4475	4475	4475	4475	4475	
5°	4490	4448	4463	4447	4447	426
15°	4318	4276	4294	4278	4271	1218
25°	3977	3930	3949	3914	3910	1829
35°	3435	3401	3412	3372	3369	2146
45°	2792	2773	2773	2745	2745	2150
55°	2071	2063	2043	2031	2028	1840
65°	1224	1200	1173	1165	1169	1221
75°	557	557	549	545	541	604
85°	129	141	141	141	141	152
90°	6	18	39	42	39	18
95°	202	710	2166	1121	667	212
105°	655	1012	3907	5764	5528	690
115°	1153	1409	3240	6273	7081	1138
125°	1578	1808	2921	4929	5790	1407
135°	1892	2116	2842	3980	4505	1462
145°	2200	2365	2803	3406	3666	1376
155°	2483	2580	2779	3056	3156	1145
165°	2703	2730	2791	2900	2915	762
175°	2806	2803	2794	2830	2824	266
180°	2803	2803	2803	2803	2803	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4502.8	4466.0	4474.6	4467.9	4449.5
5°	4490.3	4448.1	4462.8	4447.2	4447.2
7.5°	4459.7	4413.7	4428.3	4412.6	4411.9
10°	4431.5	4385.4	4400.1	4384.3	4380.5
12.5°	4390.7	4344.7	4362.4	4343.6	4342.8
15°	4317.7	4275.6	4294.2	4278.3	4270.7
17.5°	4235.4	4189.4	4211.9	4189.8	4186.8
20°	4172.6	4126.6	4149.1	4117.7	4117.7
22.5°	4097.3	4051.3	4076.9	4036.2	4036.2
25°	3976.6	3930.5	3949.1	3913.7	3909.9
27.5°	3833.0	3787.8	3807.1	3767.1	3766.4
30°	3729.5	3687.3	3709.9	3666.7	3662.8
32.5°	3616.5	3577.4	3593.8	3550.6	3546.7
35°	3435.4	3400.9	3411.8	3372.5	3368.7
37.5°	3244.8	3209.5	3222.0	3188.3	3186.7
40°	3109.9	3086.9	3090.3	3062.6	3055.0
42.5°	2984.4	2958.3	2961.6	2934.1	2932.6
45°	2792.2	2773.0	2772.6	2745.2	2745.2
47.5°	2588.3	2573.7	2569.5	2546.7	2545.9
50°	2447.1	2435.6	2431.4	2411.7	2407.9
52.5°	2299.7	2294.3	2280.8	2264.3	2263.6
55°	2070.6	2063.0	2043.2	2031.3	2027.5
57.5°	1822.0	1806.7	1784.4	1767.2	1770.2
60°	1643.2	1627.8	1596.1	1588.3	1588.3
62.5°	1470.6	1452.2	1420.4	1409.6	1415.7
65°	1223.6	1200.5	1172.6	1164.8	1168.7
67.5°	999.2	978.5	948.3	948.2	945.1
70°	854.9	843.4	819.6	819.6	819.6
72.5°	726.3	720.9	703.5	703.5	700.4
75°	556.9	556.9	549.0	545.0	541.2
77.5°	417.3	418.8	414.9	410.8	403.9
80°	329.4	337.1	333.3	329.3	325.5
82.5°	247.8	255.5	254.9	247.8	247.1
85°	129.4	140.9	141.2	141.2	141.2
87.5°	35.7	50.3	58.0	58.7	61.2
90°	6.0	17.8	39.2	42.2	39.2
92.5°	85.7	312.3	616.1	267.5	193.7
95°	202.2	709.6	2166.4	1121.1	666.8
97.5°	324.7	813.8	3376.9	2794.6	2052.3
100°	416.4	855.9	3753.4	3914.4	3165.0
102.5°	500.9	914.5	3886.2	4763.5	4203.0
105°	654.7	1011.7	3907.3	5763.5	5527.5
107.5°	797.1	1122.8	3736.5	6387.4	6465.9
110°	908.2	1203.2	3584.4	6554.9	6888.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1007.1	1283.3	3444.4	6521.4	7081.4
115°	1152.6	1409.2	3240.5	6273.0	7081.4
117.5°	1295.0	1535.7	3105.9	5893.5	6809.8
120°	1381.9	1617.9	3026.3	5621.2	6556.4
122.5°	1463.9	1695.2	2978.0	5329.3	6271.6
125°	1578.0	1808.1	2920.7	4928.6	5790.0
127.5°	1683.0	1909.0	2886.9	4601.6	5359.2
130°	1740.9	1974.0	2872.4	4399.5	5084.0
132.5°	1801.3	2032.0	2857.9	4217.3	4847.4
135°	1891.8	2116.0	2842.2	3979.6	4504.7
137.5°	1982.9	2194.7	2828.9	3786.7	4214.4
140°	2045.7	2243.3	2824.1	3662.5	4043.1
142.5°	2106.0	2291.9	2814.4	3550.4	3883.7
145°	2199.5	2364.7	2803.0	3406.3	3665.9
147.5°	2284.6	2431.0	2789.7	3275.8	3475.2
150°	2347.4	2477.2	2784.9	3204.9	3364.2
152.5°	2405.3	2518.6	2782.5	3139.1	3270.0
155°	2483.2	2580.5	2778.8	3055.7	3156.0
157.5°	2564.0	2631.9	2779.4	2997.6	3063.7
160°	2609.9	2665.9	2781.9	2960.9	3008.2
162.5°	2646.1	2692.7	2784.3	2931.7	2967.1
165°	2703.4	2730.0	2790.9	2899.9	2914.6
167.5°	2742.6	2760.9	2791.5	2872.5	2879.6
170°	2766.8	2775.6	2793.9	2860.3	2860.3
172.5°	2786.1	2787.9	2793.9	2845.8	2843.4
175°	2806.0	2803.0	2793.9	2830.0	2824.1
177.5°	2812.6	2805.6	2793.3	2817.3	2810.2
180°	2803.0	2803.0	2803.0	2803.0	2803.0

(END OF REPORT)