

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: P563781

Luminaire Tested: **SQ4-PP3-150U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563781
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-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

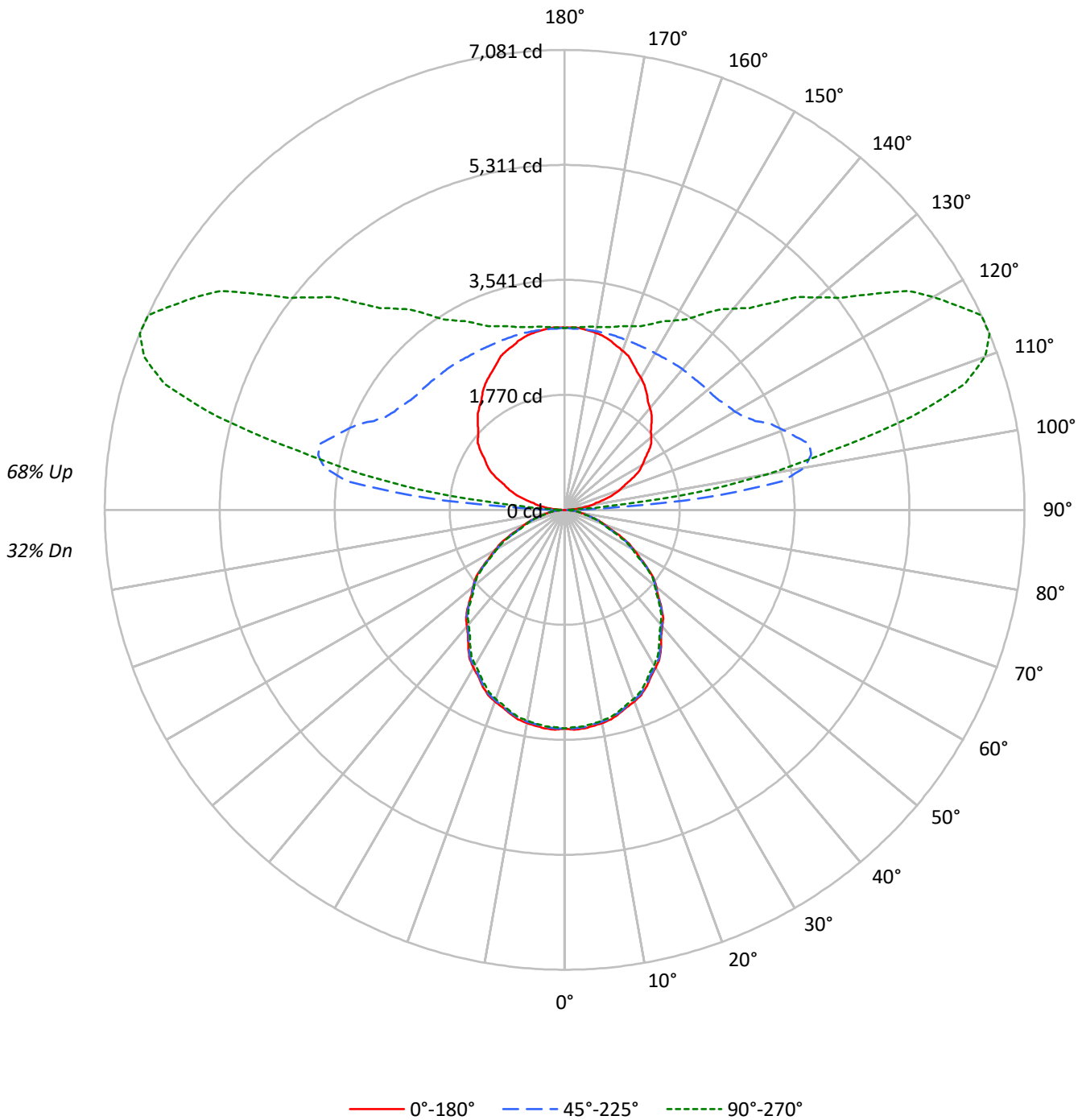
Lumens per Lamp: N/A
Luminaire Lumens: 26697.1 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 194.9
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10143
25°	10156	10085	9985
30°	9968	9915	9790
35°	9707	9640	9518
40°	9396	9337	9230
45°	9140	9076	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7607	7389	7353
65°	6701	6422	6400
70°	5785	5547	5547
75°	4980	4910	4840
80°	4390	4444	4339
85°	3437	3751	3751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	1.2
10°-20°	909.3	3.4
20°-30°	1361.9	5.1
30°-40°	1597.5	6.0
40°-50°	1602.5	6.0
50°-60°	1367.1	5.1
60°-70°	891.6	3.3
70°-80°	447.3	1.7
80°-90°	129.6	0.5
90°-100°	1302.7	4.9
100°-110°	3522.1	13.2
110°-120°	3703.0	13.9
120°-130°	3007.8	11.3
130°-140°	2359.4	8.8
140°-150°	1810.8	6.8
150°-160°	1302.3	4.9
160°-170°	795.6	3.0
170°-180°	268.2	1.0
0°-30°	2589.7	9.7
0°-40°	4187.1	15.7
0°-60°	7156.7	26.8
0°-90°	8625.2	32.3
90°-120°	8527.7	31.9
90°-150°	15705.8	58.8
90°-180°	18072.0	67.7
0°-180°	26697.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3380	3348	3359	3347	3347	321
15°	3250	3218	3232	3220	3214	917
25°	2993	2958	2972	2946	2943	1376
35°	2586	2560	2568	2538	2535	1615
45°	2102	2087	2087	2066	2066	1618
55°	1558	1553	1538	1529	1526	1385
65°	921	904	882	877	880	919
75°	419	419	413	410	407	455
85°	97	106	106	106	106	115
90°	6	18	39	42	39	17
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°	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3388.9	3361.2	3367.6	3362.6	3348.8
5°	3379.5	3347.7	3358.8	3347.0	3347.0
7.5°	3356.4	3321.8	3332.8	3321.0	3320.4
10°	3335.2	3300.5	3311.6	3299.7	3296.8
12.5°	3304.5	3269.9	3283.2	3269.1	3268.5
15°	3249.6	3217.8	3231.9	3219.9	3214.2
17.5°	3187.6	3153.0	3169.9	3153.3	3151.0
20°	3140.4	3105.8	3122.7	3099.1	3099.1
22.5°	3083.7	3049.1	3068.4	3037.7	3037.7
25°	2992.8	2958.2	2972.1	2945.5	2942.6
27.5°	2884.8	2850.7	2865.3	2835.2	2834.6
30°	2806.9	2775.1	2792.1	2759.6	2756.7
32.5°	2721.9	2692.4	2704.7	2672.2	2669.3
35°	2585.5	2559.5	2567.8	2538.2	2535.3
37.5°	2442.1	2415.5	2424.9	2399.5	2398.4
40°	2340.5	2323.2	2325.8	2305.0	2299.2
42.5°	2246.1	2226.5	2229.0	2208.3	2207.1
45°	2101.5	2087.0	2086.7	2066.0	2066.0
47.5°	1948.0	1937.0	1933.8	1916.7	1916.1
50°	1841.7	1833.1	1829.9	1815.1	1812.2
52.5°	1730.8	1726.7	1716.6	1704.2	1703.6
55°	1558.4	1552.6	1537.7	1528.8	1525.9
57.5°	1371.3	1359.7	1342.9	1330.0	1332.3
60°	1236.7	1225.1	1201.3	1195.4	1195.4
62.5°	1106.8	1093.0	1069.0	1060.9	1065.5
65°	920.9	903.5	882.5	876.7	879.5
67.5°	752.0	736.5	713.7	713.6	711.3
70°	643.4	634.8	616.9	616.9	616.9
72.5°	546.6	542.6	529.5	529.4	527.1
75°	419.1	419.1	413.2	410.2	407.3
77.5°	314.0	315.2	312.3	309.2	304.0
80°	247.9	253.7	250.9	247.9	245.0
82.5°	186.5	192.3	191.8	186.5	185.9
85°	97.4	106.1	106.3	106.3	106.3
87.5°	27.2	38.8	45.6	46.3	48.0
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)