

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: P563109

Luminaire Tested: **SQ4-PC3-150U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563109
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

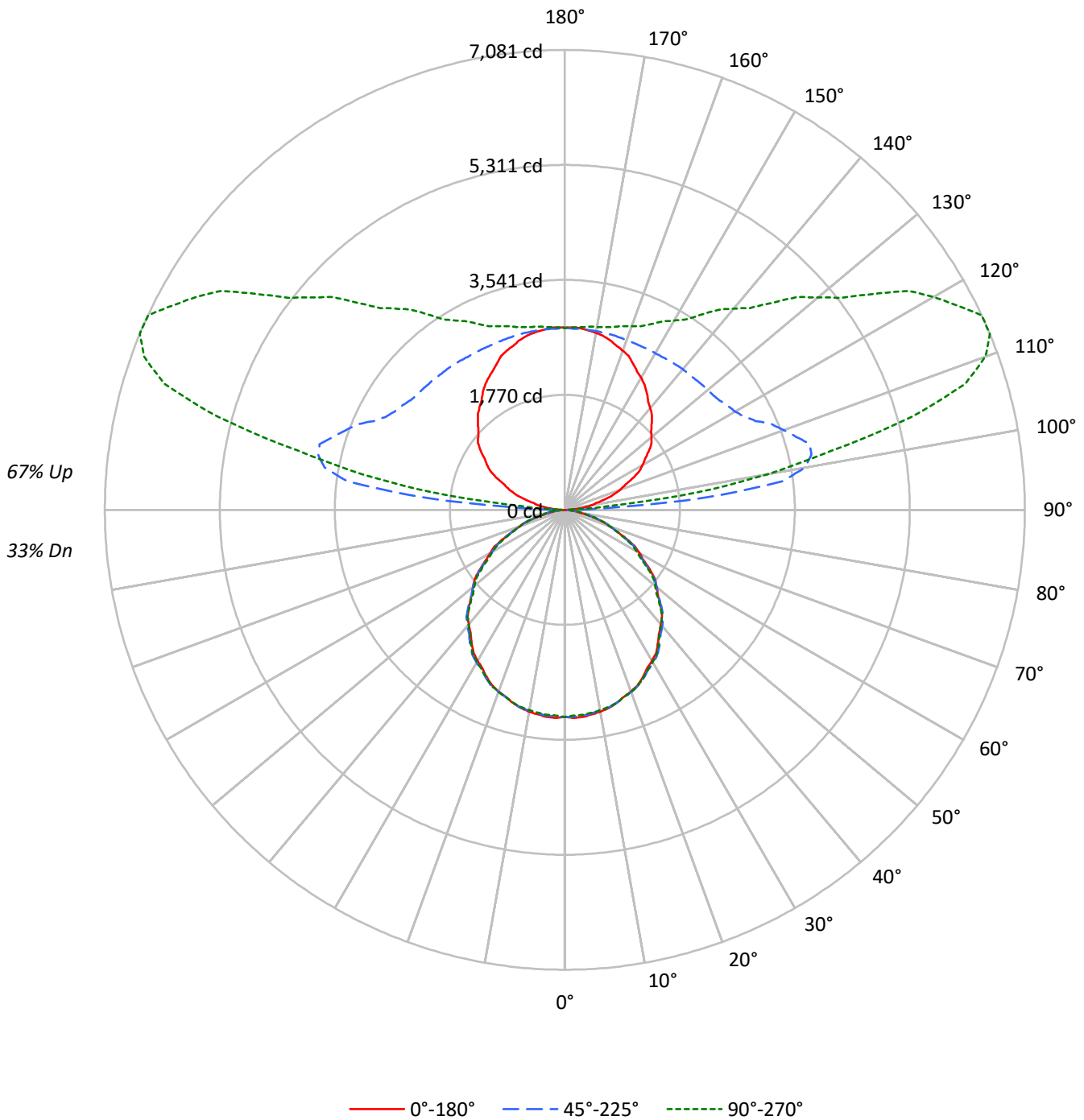
Lumens per Lamp: N/A
Luminaire Lumens: 26779.4 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8310
60°	8135	7971	7844
65°	7519	7369	7304
70°	6583	6636	6610
75°	5297	5858	5894
80°	3765	4968	5019
85°	2290	4167	4167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	1.1
10°-20°	865.9	3.2
20°-30°	1311.3	4.9
30°-40°	1572.1	5.9
40°-50°	1603.0	6.0
50°-60°	1399.3	5.2
60°-70°	1001.8	3.7
70°-80°	516.0	1.9
80°-90°	136.3	0.5
90°-100°	1302.7	4.9
100°-110°	3522.1	13.2
110°-120°	3703.0	13.8
120°-130°	3007.8	11.2
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°	2479.0	9.3
0°-40°	4051.1	15.1
0°-60°	7053.4	26.3
0°-90°	8707.5	32.5
90°-120°	8527.7	31.8
90°-150°	15705.8	58.6
90°-180°	18072.0	67.5
0°-180°	26779.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3188	3188	3188	3188	3188	
5°	3200	3168	3180	3171	3168	304
15°	3079	3053	3079	3079	3076	868
25°	2843	2823	2864	2855	2855	1308
35°	2500	2495	2539	2521	2521	1564
45°	2084	2078	2099	2072	2066	1604
55°	1594	1574	1574	1550	1550	1421
65°	1033	1010	1013	1004	1004	1022
75°	446	466	493	496	496	482
85°	65	100	118	121	118	88
90°	6	18	39	42	39	16
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	

TEST NUMBER: P563109

CATALOG NUMBER: SQ4-PC3-150U-075D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3188.4	3188.4	3188.4	3188.4	3188.4
2.5°	3207.3	3179.5	3188.4	3181.0	3169.5
5°	3200.2	3168.4	3179.5	3170.6	3167.7
7.5°	3177.1	3145.4	3160.0	3154.1	3151.2
10°	3155.9	3124.1	3141.1	3135.2	3132.3
12.5°	3127.5	3098.1	3117.5	3111.6	3111.0
15°	3079.1	3053.2	3079.1	3079.1	3076.2
17.5°	3018.3	2994.6	3022.4	3024.2	3022.4
20°	2975.8	2949.8	2984.7	2981.8	2984.7
22.5°	2923.8	2902.5	2939.8	2932.2	2935.1
25°	2843.0	2822.7	2863.6	2854.8	2854.8
27.5°	2747.3	2732.9	2777.4	2768.0	2768.0
30°	2683.5	2669.1	2716.0	2704.2	2704.2
32.5°	2612.7	2602.9	2647.5	2633.4	2633.4
35°	2500.5	2494.7	2538.9	2521.2	2521.2
37.5°	2384.8	2379.6	2419.6	2398.2	2391.3
40°	2299.8	2296.9	2332.2	2308.6	2308.6
42.5°	2214.7	2211.8	2242.5	2214.1	2214.1
45°	2084.2	2078.5	2099.0	2072.3	2066.5
47.5°	1941.9	1936.2	1949.0	1920.0	1917.1
50°	1845.1	1839.3	1845.1	1818.5	1815.6
52.5°	1745.9	1735.5	1736.5	1709.9	1709.3
55°	1594.2	1574.0	1573.5	1549.9	1549.9
57.5°	1433.6	1407.0	1409.4	1389.2	1386.3
60°	1322.6	1293.7	1296.0	1278.2	1275.3
62.5°	1213.9	1180.5	1187.4	1167.3	1166.7
65°	1033.3	1010.2	1012.6	1003.7	1003.7
67.5°	859.7	838.3	853.8	846.7	846.1
70°	732.1	717.7	738.0	738.0	735.1
72.5°	614.1	613.5	638.9	638.9	640.6
75°	445.8	466.0	493.0	496.0	496.0
77.5°	297.6	333.4	363.1	364.3	363.7
80°	212.6	253.0	280.5	286.3	283.4
82.5°	144.1	186.8	209.6	215.4	212.6
85°	64.9	99.6	118.1	121.0	118.1
87.5°	20.1	43.2	55.1	55.6	50.4
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



TEST NUMBER: P563109

CATALOG NUMBER: SQ4-PC3-150U-075D-835-1D-UNV-STD-W-12

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)