

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: P563137

Luminaire Tested: **SQ4-PC3-150U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563137
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-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

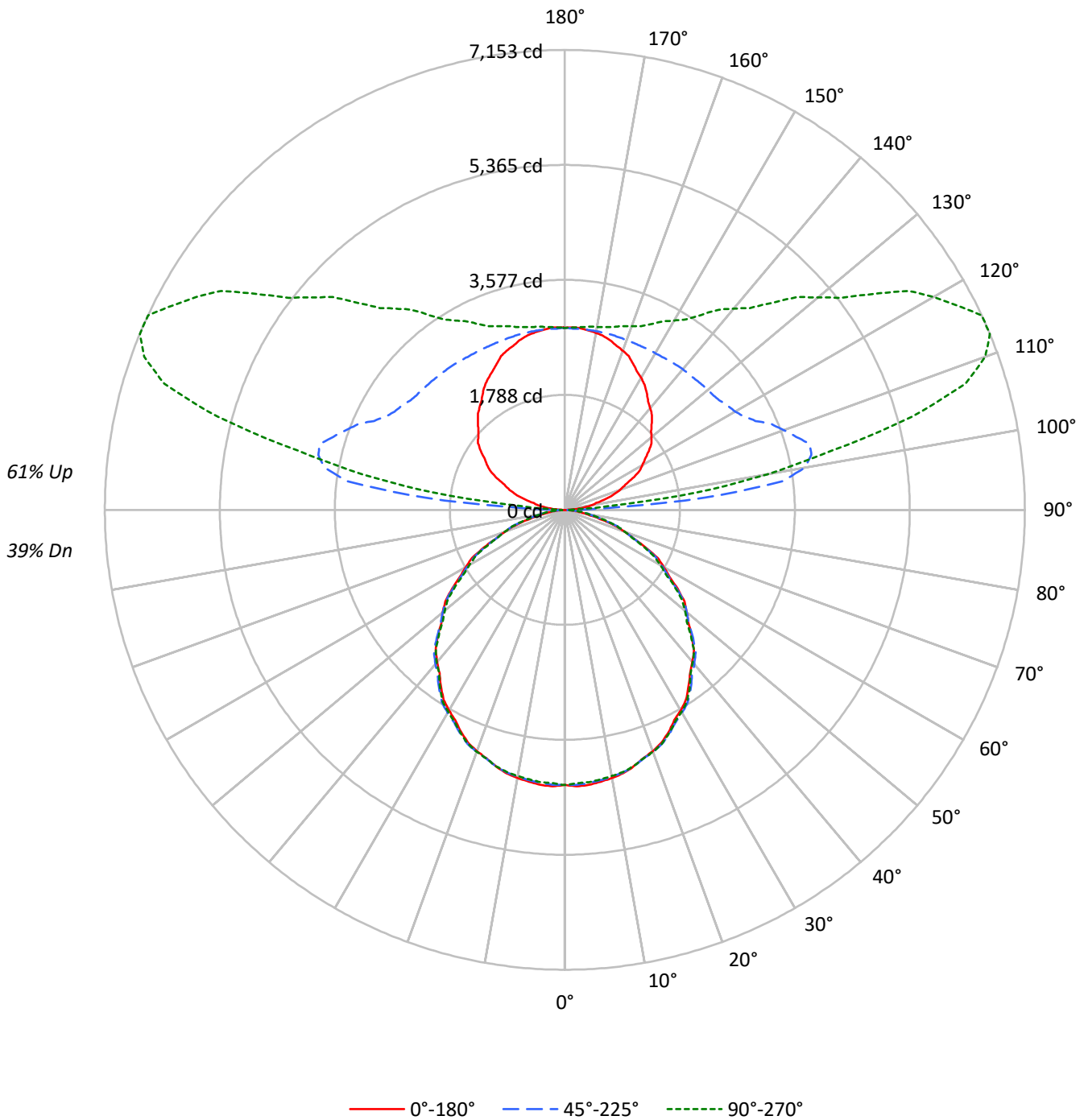
Lumens per Lamp: N/A
Luminaire Lumens: 29937.9 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13127
15°	13157	13157	13145
20°	13070	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11848	11848	11658
55°	11472	11323	11153
60°	10918	10698	10528
65°	10091	9889	9803
70°	8835	8906	8871
75°	7109	7863	7909
80°	5053	6666	6737
85°	3077	5593	5593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	1.4
10°-20°	1162.1	3.9
20°-30°	1759.9	5.9
30°-40°	2109.9	7.0
40°-50°	2151.3	7.2
50°-60°	1878.0	6.3
60°-70°	1344.5	4.5
70°-80°	692.5	2.3
80°-90°	181.0	0.6
90°-100°	1315.8	4.4
100°-110°	3557.5	11.9
110°-120°	3740.2	12.5
120°-130°	3038.1	10.1
130°-140°	2383.1	8.0
140°-150°	1829.1	6.1
150°-160°	1315.4	4.4
160°-170°	803.6	2.7
170°-180°	270.9	0.9
0°-30°	3327.0	11.1
0°-40°	5436.8	18.2
0°-60°	9466.2	31.6
0°-90°	11684.2	39.0
90°-120°	8613.5	28.8
90°-150°	15863.8	53.0
90°-180°	18254.0	61.0
0°-180°	29937.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4279	4279	4279	4279	4279	
5°	4295	4252	4267	4255	4251	408
15°	4132	4098	4132	4132	4128	1165
25°	3816	3788	3843	3831	3831	1756
35°	3356	3348	3407	3384	3384	2099
45°	2797	2790	2817	2781	2773	2153
55°	2140	2112	2112	2080	2080	1907
65°	1387	1356	1359	1347	1347	1371
75°	598	625	662	666	666	647
85°	87	134	158	162	158	119
90°	6	18	40	43	40	17
95°	204	717	2188	1132	674	214
105°	661	1022	3947	5822	5583	696
115°	1164	1423	3273	6336	7153	1150
125°	1594	1826	2950	4978	5848	1421
135°	1911	2137	2871	4020	4550	1477
145°	2222	2388	2831	3441	3703	1390
155°	2508	2606	2807	3086	3188	1157
165°	2731	2757	2819	2929	2944	769
175°	2834	2831	2822	2858	2852	269
180°	2831	2831	2831	2831	2831	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4279.0	4279.0	4279.0	4279.0	4279.0
2.5°	4304.4	4267.2	4279.0	4269.2	4253.7
5°	4294.9	4252.2	4267.1	4255.2	4251.3
7.5°	4264.0	4221.3	4241.0	4233.0	4229.1
10°	4235.4	4192.8	4215.6	4207.6	4203.7
12.5°	4197.4	4157.9	4183.9	4176.0	4175.2
15°	4132.4	4097.6	4132.4	4132.3	4128.5
17.5°	4050.8	4019.0	4056.3	4058.7	4056.3
20°	3993.7	3958.9	4005.6	4001.8	4005.6
22.5°	3924.0	3895.3	3945.4	3935.2	3939.1
25°	3815.5	3788.3	3843.2	3831.3	3831.3
27.5°	3687.1	3667.7	3727.5	3714.8	3714.8
30°	3601.5	3582.1	3645.1	3629.2	3629.2
32.5°	3506.4	3493.2	3553.2	3534.1	3534.1
35°	3355.9	3348.1	3407.4	3383.6	3383.6
37.5°	3200.5	3193.6	3247.3	3218.6	3209.3
40°	3086.4	3082.6	3130.0	3098.3	3098.3
42.5°	2972.3	2968.5	3009.6	2971.5	2971.5
45°	2797.2	2789.5	2817.0	2781.2	2773.4
47.5°	2606.2	2598.5	2615.7	2576.8	2573.0
50°	2476.3	2468.5	2476.3	2440.5	2436.7
52.5°	2343.2	2329.2	2330.5	2294.8	2294.0
55°	2139.5	2112.4	2111.8	2080.1	2080.1
57.5°	1924.0	1888.3	1891.5	1864.5	1860.6
60°	1775.0	1736.3	1739.3	1715.5	1711.6
62.5°	1629.2	1584.3	1593.5	1566.6	1565.8
65°	1386.7	1355.7	1359.0	1347.1	1347.1
67.5°	1153.7	1125.1	1145.8	1136.3	1135.5
70°	982.6	963.2	990.5	990.4	986.6
72.5°	824.1	823.3	857.4	857.4	859.8
75°	598.3	625.4	661.7	665.6	665.6
77.5°	399.4	447.4	487.3	488.9	488.1
80°	285.3	339.5	376.4	384.2	380.4
82.5°	193.3	250.7	281.3	289.1	285.3
85°	87.2	133.7	158.5	162.4	158.5
87.5°	26.6	56.9	71.3	71.8	65.0
90°	6.1	18.0	39.6	42.6	39.6
92.5°	86.6	315.4	622.3	270.1	195.7
95°	204.2	716.7	2188.2	1132.4	673.5
97.5°	327.9	822.0	3410.8	2822.7	2073.0
100°	420.6	864.6	3791.2	3953.8	3196.9
102.5°	505.9	923.7	3925.3	4811.4	4245.3
105°	661.3	1021.9	3946.6	5821.5	5583.1
107.5°	805.2	1134.1	3774.1	6451.7	6530.9
110°	917.3	1215.3	3620.5	6620.9	6957.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1017.3	1296.2	3479.1	6587.1	7152.6
115°	1164.2	1423.4	3273.1	6336.2	7152.6
117.5°	1308.0	1551.2	3137.2	5952.8	6878.3
120°	1395.8	1634.2	3056.7	5677.7	6622.4
122.5°	1478.7	1712.3	3007.9	5382.9	6334.7
125°	1593.9	1826.3	2950.0	4978.2	5848.3
127.5°	1699.9	1928.2	2915.9	4647.9	5413.1
130°	1758.4	1993.9	2901.3	4443.8	5135.1
132.5°	1819.4	2052.4	2886.7	4259.7	4896.2
135°	1910.8	2137.3	2870.8	4019.6	4550.0
137.5°	2002.9	2216.8	2857.4	3824.8	4256.8
140°	2066.2	2265.9	2852.5	3699.3	4083.7
142.5°	2127.2	2314.9	2842.8	3586.1	3922.8
145°	2221.7	2388.5	2831.2	3440.6	3702.8
147.5°	2307.6	2455.4	2817.8	3308.7	3510.2
150°	2371.0	2502.1	2812.9	3237.1	3398.0
152.5°	2429.5	2543.9	2810.5	3170.6	3302.9
155°	2508.1	2606.5	2806.8	3086.4	3187.8
157.5°	2589.8	2658.4	2807.4	3027.7	3094.5
160°	2636.1	2692.8	2809.9	2990.7	3038.4
162.5°	2672.7	2719.8	2812.3	2961.2	2997.0
165°	2730.6	2757.4	2819.0	2929.0	2943.9
167.5°	2770.2	2788.7	2819.6	2901.4	2908.6
170°	2794.6	2803.6	2822.0	2889.1	2889.1
172.5°	2814.1	2815.9	2822.0	2874.4	2872.0
175°	2834.2	2831.3	2822.0	2858.5	2852.5
177.5°	2840.9	2833.8	2821.4	2845.7	2838.5
180°	2831.2	2831.2	2831.2	2831.2	2831.2

(END OF REPORT)