

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: P563173

Luminaire Tested: **SQ4-PC3-150U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563173
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-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

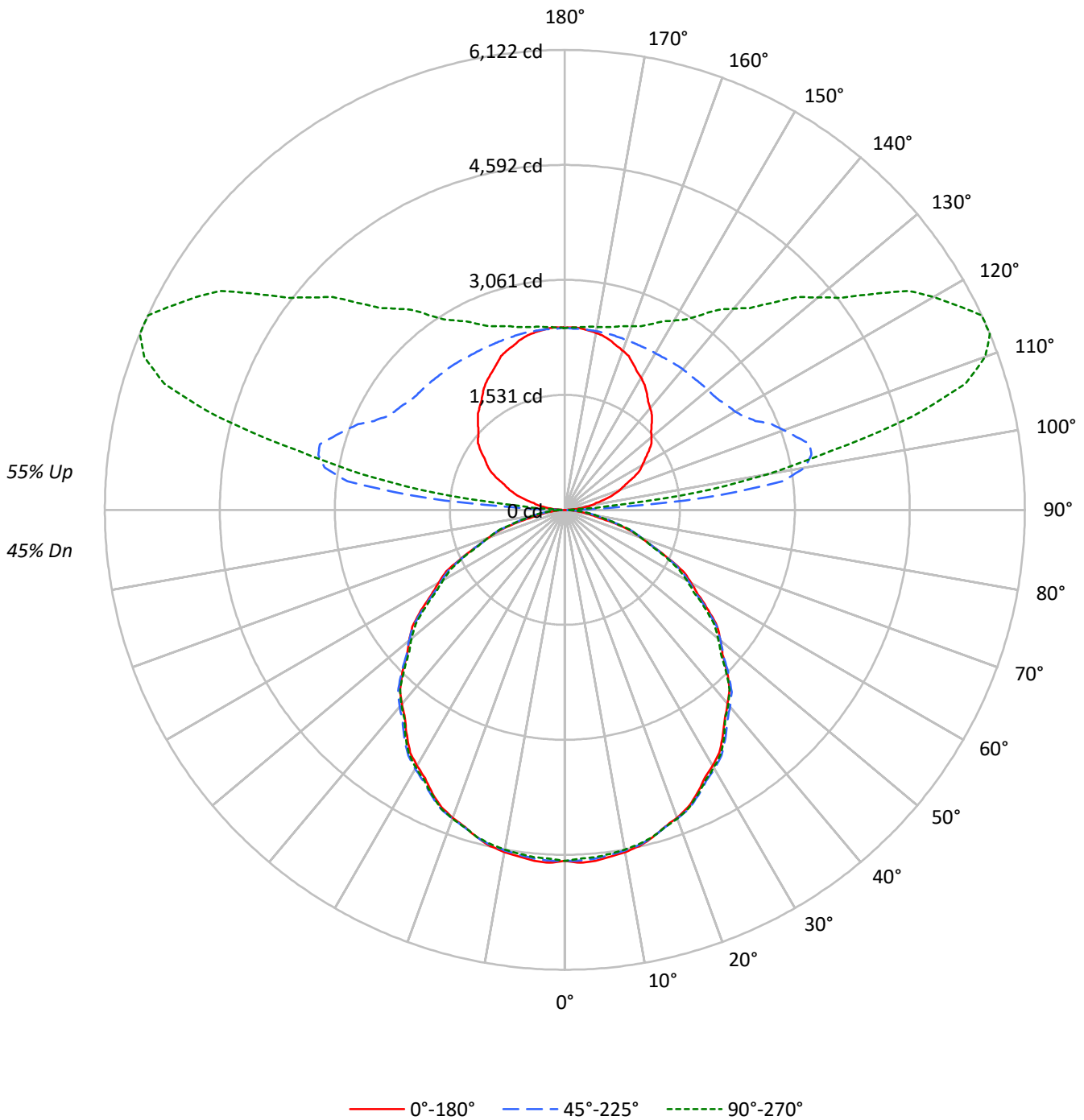
Lumens per Lamp: N/A
Luminaire Lumens: 28382.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 256.3
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14373	14373	14373
5°	14482	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14243	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13533	13724	13586
45°	13287	13382	13175
50°	12940	12940	12733
55°	12529	12367	12181
60°	11925	11685	11498
65°	11022	10801	10707
70°	9650	9727	9689
75°	7764	8587	8639
80°	5519	7281	7357
85°	3359	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	1.6
10°-20°	1269.3	4.5
20°-30°	1922.2	6.8
30°-40°	2304.4	8.1
40°-50°	2349.7	8.3
50°-60°	2051.2	7.2
60°-70°	1468.4	5.2
70°-80°	756.3	2.7
80°-90°	196.3	0.7
90°-100°	1126.1	4.0
100°-110°	3044.8	10.7
110°-120°	3201.2	11.3
120°-130°	2600.2	9.2
130°-140°	2039.6	7.2
140°-150°	1565.4	5.5
150°-160°	1125.8	4.0
160°-170°	687.8	2.4
170°-180°	231.9	0.8
0°-30°	3633.7	12.8
0°-40°	5938.1	20.9
0°-60°	10339.0	36.4
0°-90°	12760.1	45.0
90°-120°	7372.0	26.0
90°-150°	13577.3	47.8
90°-180°	15623.0	55.0
0°-180°	28382.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4674	4674	4674	4674	4674	
5°	4691	4644	4661	4648	4643	445
15°	4513	4475	4513	4513	4509	1273
25°	4167	4138	4198	4185	4185	1918
35°	3665	3657	3722	3696	3696	2292
45°	3055	3047	3077	3038	3029	2352
55°	2337	2307	2306	2272	2272	2083
65°	1515	1481	1484	1471	1471	1498
75°	653	683	723	727	727	706
85°	95	146	173	177	173	130
90°	5	15	34	36	34	16
95°	175	613	1873	969	576	183
105°	566	875	3378	4982	4778	596
115°	996	1218	2801	5423	6122	984
125°	1364	1563	2525	4261	5005	1216
135°	1635	1829	2457	3440	3894	1264
145°	1902	2044	2423	2945	3169	1190
155°	2147	2231	2402	2642	2728	990
165°	2337	2360	2413	2507	2520	658
175°	2426	2423	2415	2446	2441	230
180°	2423	2423	2423	2423	2423	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4673.6	4673.6	4673.6	4673.6	4673.6
2.5°	4701.2	4660.6	4673.6	4662.8	4645.9
5°	4690.9	4644.3	4660.6	4647.5	4643.3
7.5°	4657.1	4610.6	4632.0	4623.3	4619.0
10°	4625.9	4579.4	4604.3	4595.6	4591.3
12.5°	4584.4	4541.2	4569.7	4561.0	4560.2
15°	4513.4	4475.4	4513.4	4513.3	4509.1
17.5°	4424.3	4389.6	4430.4	4432.9	4430.4
20°	4362.0	4323.9	4375.0	4370.7	4375.0
22.5°	4285.8	4254.5	4309.2	4298.0	4302.3
25°	4167.2	4137.6	4197.5	4184.6	4184.6
27.5°	4027.0	4005.9	4071.2	4057.3	4057.3
30°	3933.6	3912.4	3981.2	3963.9	3963.9
32.5°	3829.7	3815.3	3880.8	3860.0	3860.0
35°	3665.3	3656.8	3721.5	3695.6	3695.6
37.5°	3495.6	3488.0	3546.7	3515.3	3505.2
40°	3371.0	3366.8	3418.6	3384.0	3384.0
42.5°	3246.4	3242.2	3287.1	3245.5	3245.5
45°	3055.1	3046.7	3076.8	3037.6	3029.2
47.5°	2846.5	2838.1	2856.9	2814.4	2810.2
50°	2704.6	2696.1	2704.6	2665.6	2661.3
52.5°	2559.2	2544.0	2545.4	2506.4	2505.5
55°	2336.8	2307.2	2306.5	2271.9	2271.9
57.5°	2101.4	2062.4	2065.9	2036.4	2032.1
60°	1938.7	1896.3	1899.7	1873.7	1869.4
62.5°	1779.4	1730.3	1740.5	1711.0	1710.2
65°	1514.6	1480.7	1484.3	1471.3	1471.3
67.5°	1260.1	1228.8	1251.5	1241.1	1240.2
70°	1073.2	1052.0	1081.8	1081.7	1077.5
72.5°	900.1	899.2	936.4	936.5	939.0
75°	653.4	683.0	722.7	727.0	727.0
77.5°	436.2	488.7	532.3	534.0	533.1
80°	311.6	370.8	411.1	419.7	415.4
82.5°	211.2	273.8	307.2	315.8	311.6
85°	95.2	146.0	173.1	177.3	173.1
87.5°	28.7	61.2	76.0	76.4	69.1
90°	5.2	15.4	33.9	36.5	33.9
92.5°	74.1	269.9	532.6	231.2	167.5
95°	174.8	613.4	1872.8	969.2	576.4
97.5°	280.7	703.5	2919.2	2415.8	1774.2
100°	359.9	739.9	3244.7	3383.9	2736.1
102.5°	433.0	790.5	3359.5	4117.9	3633.4
105°	566.0	874.6	3377.8	4982.5	4778.4
107.5°	689.1	970.7	3230.1	5521.8	5589.6
110°	785.1	1040.1	3098.7	5666.6	5954.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	870.7	1109.4	2977.7	5637.7	6121.7
115°	996.4	1218.3	2801.3	5422.9	6121.7
117.5°	1119.5	1327.6	2685.0	5094.8	5887.0
120°	1194.6	1398.6	2616.1	4859.4	5667.9
122.5°	1265.6	1465.5	2574.4	4607.1	5421.6
125°	1364.1	1563.1	2524.8	4260.7	5005.4
127.5°	1454.9	1650.3	2495.6	3978.0	4632.9
130°	1505.0	1706.5	2483.1	3803.3	4395.0
132.5°	1557.2	1756.6	2470.6	3645.8	4190.5
135°	1635.4	1829.2	2457.0	3440.2	3894.2
137.5°	1714.2	1897.3	2445.6	3273.5	3643.3
140°	1768.4	1939.3	2441.4	3166.1	3495.1
142.5°	1820.6	1981.3	2433.0	3069.2	3357.4
145°	1901.5	2044.3	2423.1	2944.7	3169.1
147.5°	1975.0	2101.5	2411.6	2831.9	3004.3
150°	2029.3	2141.5	2407.5	2770.6	2908.3
152.5°	2079.3	2177.3	2405.4	2713.7	2826.9
155°	2146.6	2230.8	2402.3	2641.6	2728.3
157.5°	2216.5	2275.2	2402.8	2591.4	2648.5
160°	2256.2	2304.6	2404.9	2559.7	2600.5
162.5°	2287.5	2327.8	2407.0	2534.4	2565.0
165°	2337.0	2360.0	2412.7	2506.9	2519.6
167.5°	2371.0	2386.8	2413.2	2483.3	2489.4
170°	2391.8	2399.5	2415.3	2472.7	2472.7
172.5°	2408.5	2410.0	2415.3	2460.1	2458.1
175°	2425.7	2423.2	2415.3	2446.5	2441.4
177.5°	2431.5	2425.3	2414.8	2435.5	2429.4
180°	2423.1	2423.1	2423.1	2423.1	2423.1

(END OF REPORT)