

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: P563033

Luminaire Tested: **SQ4-PC3-125U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563033  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-100D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

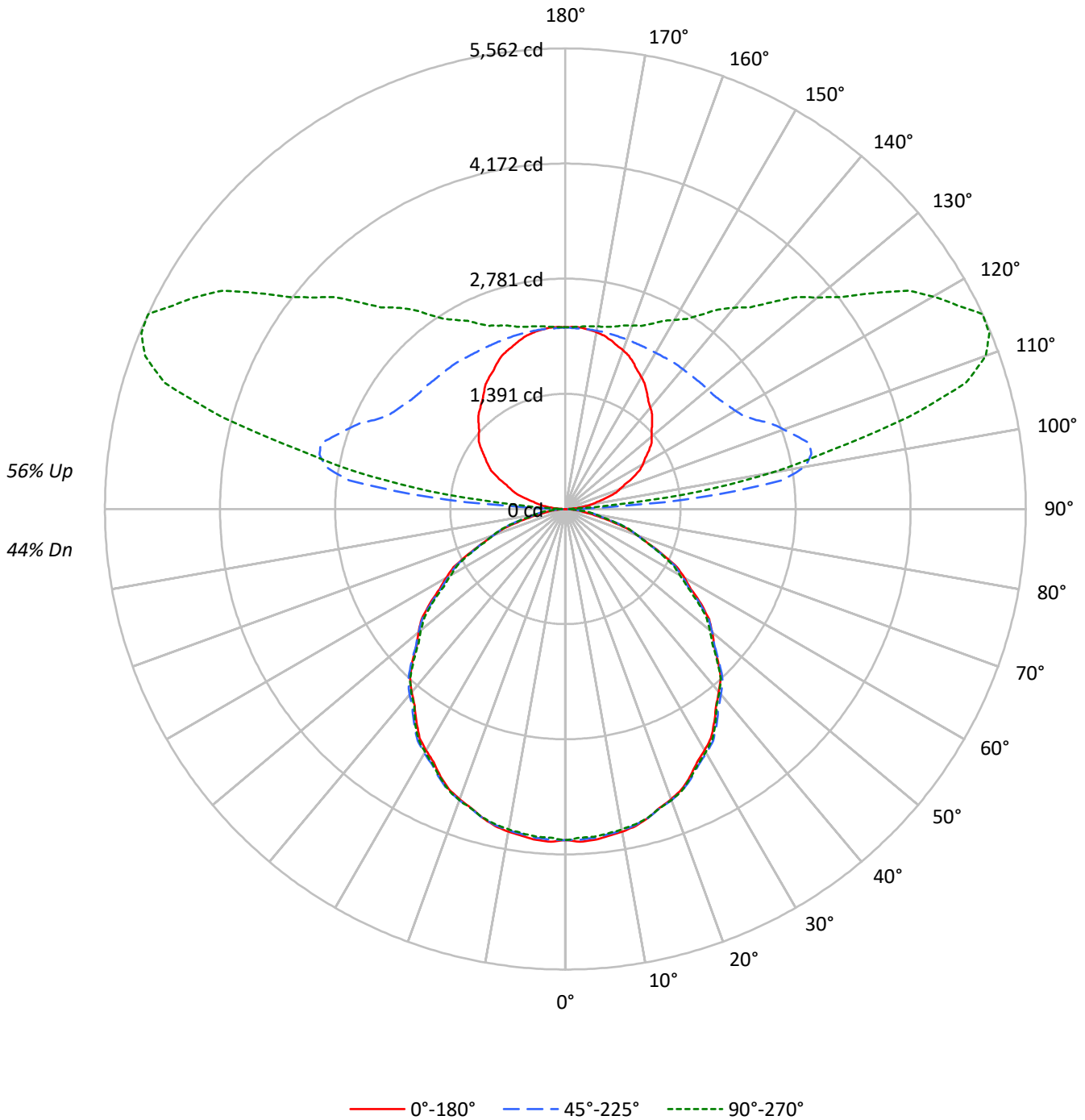
Lumens per Lamp: N/A  
Luminaire Lumens: 25074.8 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 201.2  
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			
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	80	80	80	64	64	64	50	50	50	44		
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37		
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31		
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26		
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22		
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19		
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17		
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15		
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13		
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12		
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12302	12267
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12096	12044
35°	11774	11954	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10422
60°	10202	9998	9838
65°	9430	9242	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4722	6229	6294
85°	2876	5226	5226



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.4	1.5
10°-20°	1086.0	4.3
20°-30°	1644.6	6.6
30°-40°	1971.7	7.9
40°-50°	2010.4	8.0
50°-60°	1755.0	7.0
60°-70°	1256.4	5.0
70°-80°	647.1	2.6
80°-90°	168.8	0.7
90°-100°	1025.9	4.1
100°-110°	2763.4	11.0
110°-120°	2900.1	11.6
120°-130°	2353.3	9.4
130°-140°	1845.6	7.4
140°-150°	1417.0	5.7
150°-160°	1018.8	4.1
160°-170°	622.4	2.5
170°-180°	209.9	0.8
0°-30°	3109.0	12.4
0°-40°	5080.7	20.3
0°-60°	8846.0	35.3
0°-90°	10918.3	43.5
90°-120°	6689.3	26.7
90°-150°	12305.3	49.1
90°-180°	14156.0	56.5
0°-180°	25074.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3999	3999	3999	3999	3999	
5°	4014	3974	3988	3976	3973	381
15°	3862	3829	3862	3862	3858	1089
25°	3566	3540	3591	3580	3580	1641
35°	3136	3129	3184	3162	3162	1961
45°	2614	2607	2632	2599	2592	2012
55°	1999	1974	1973	1944	1944	1782
65°	1296	1267	1270	1259	1259	1282
75°	559	584	618	622	622	604
85°	82	125	148	152	148	111
90°	6	16	34	36	36	14
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3998.7	3998.7	3998.7	3998.7	3998.7
2.5°	4022.4	3987.6	3998.7	3989.5	3975.0
5°	4013.5	3973.7	3987.6	3976.4	3972.8
7.5°	3984.6	3944.8	3963.1	3955.7	3952.0
10°	3958.0	3918.1	3939.5	3932.0	3928.3
12.5°	3922.4	3885.5	3909.8	3902.4	3901.7
15°	3861.7	3829.1	3861.7	3861.6	3858.0
17.5°	3785.4	3755.7	3790.6	3792.8	3790.6
20°	3732.1	3699.5	3743.2	3739.6	3743.2
22.5°	3666.9	3640.2	3686.9	3677.4	3681.0
25°	3565.5	3540.2	3591.4	3580.3	3580.3
27.5°	3445.5	3427.4	3483.3	3471.5	3471.5
30°	3365.6	3347.5	3406.3	3391.5	3391.5
32.5°	3276.7	3264.4	3320.4	3302.6	3302.6
35°	3136.0	3128.8	3184.1	3161.9	3161.9
37.5°	2990.9	2984.4	3034.6	3007.7	2999.0
40°	2884.2	2880.6	2925.0	2895.3	2895.3
42.5°	2777.6	2774.0	2812.4	2776.9	2776.9
45°	2614.0	2606.7	2632.5	2599.0	2591.7
47.5°	2435.5	2428.3	2444.4	2408.0	2404.4
50°	2314.1	2306.8	2314.1	2280.7	2277.0
52.5°	2189.7	2176.6	2177.8	2144.5	2143.7
55°	1999.3	1974.0	1973.4	1943.8	1943.8
57.5°	1797.9	1764.6	1767.6	1742.3	1738.7
60°	1658.7	1622.5	1625.4	1603.1	1599.5
62.5°	1522.5	1480.5	1489.1	1463.9	1463.2
65°	1295.9	1266.9	1270.0	1258.8	1258.8
67.5°	1078.2	1051.4	1070.8	1061.9	1061.1
70°	918.2	900.1	925.6	925.5	921.9
72.5°	770.1	769.4	801.2	801.3	803.4
75°	559.1	584.4	618.3	622.0	622.0
77.5°	373.2	418.1	455.4	456.9	456.1
80°	266.6	317.3	351.7	359.1	355.4
82.5°	180.7	234.3	262.9	270.2	266.6
85°	81.5	124.9	148.1	151.7	148.1
87.5°	24.8	53.1	65.9	66.4	60.6
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)