

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: P563705

Luminaire Tested: **SQ4-PP3-125U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563705
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-100D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

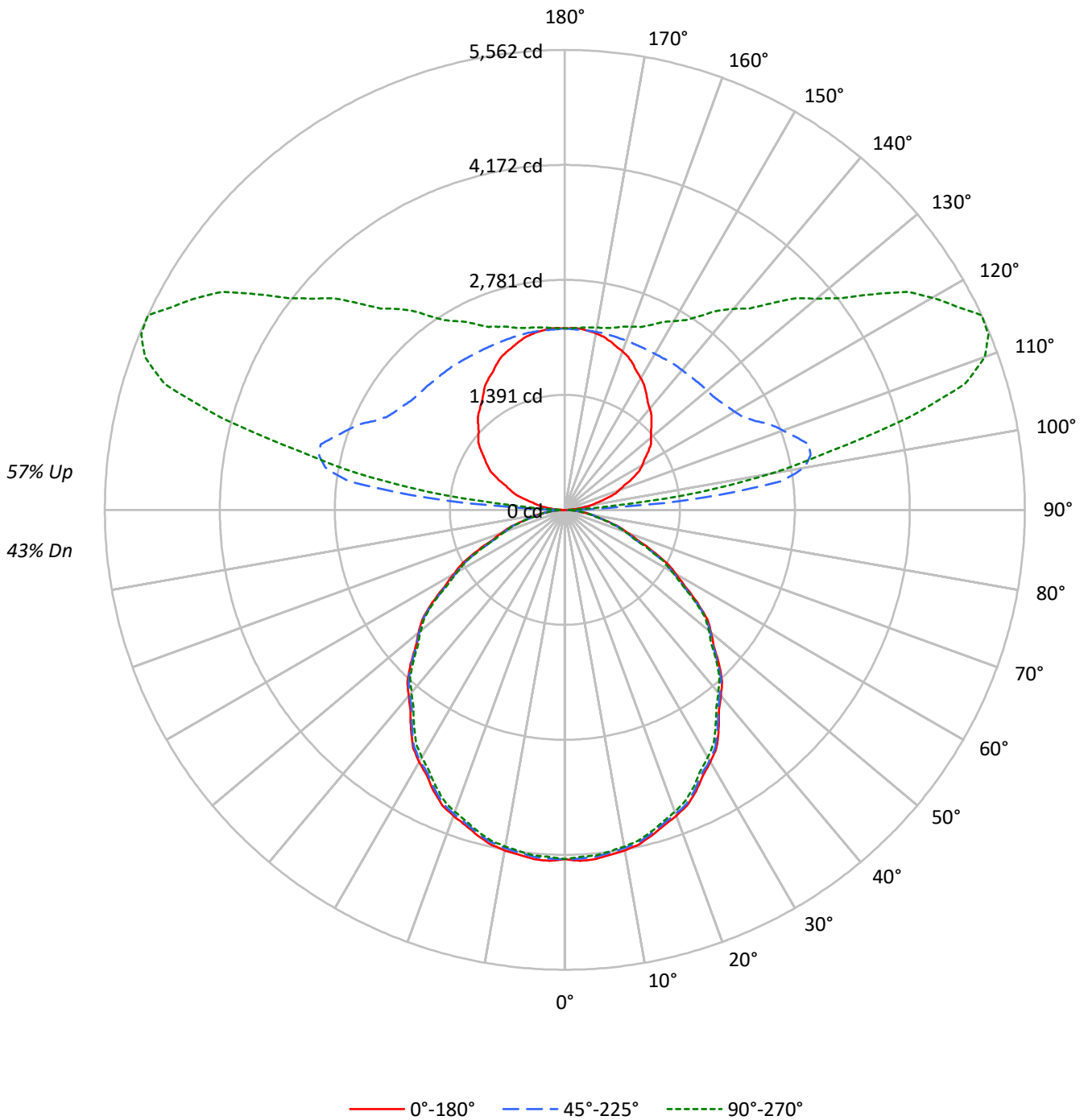
Lumens per Lamp: N/A
Luminaire Lumens: 24971.6 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	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	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	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°	12989	12989	12989
5°	13084	13004	12959
10°	13062	12970	12912
15°	12976	12905	12835
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8404	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5506	5572	5441
85°	4312	4704	4704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.6
10°-20°	1140.4	4.6
20°-30°	1708.1	6.8
30°-40°	2003.5	8.0
40°-50°	2009.8	8.0
50°-60°	1714.5	6.9
60°-70°	1118.1	4.5
70°-80°	561.0	2.2
80°-90°	160.4	0.6
90°-100°	1025.9	4.1
100°-110°	2763.4	11.1
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°	3247.8	13.0
0°-40°	5251.3	21.0
0°-60°	8975.6	35.9
0°-90°	10815.1	43.3
90°-120°	6689.3	26.8
90°-150°	12305.3	49.3
90°-180°	14156.0	56.7
0°-180°	24971.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4224	4224	4224	4224	4224	
5°	4238	4198	4212	4198	4198	402
15°	4076	4036	4053	4038	4031	1150
25°	3753	3710	3728	3694	3690	1726
35°	3243	3210	3220	3183	3180	2026
45°	2636	2618	2617	2591	2591	2029
55°	1954	1947	1928	1917	1914	1737
65°	1155	1133	1107	1100	1103	1153
75°	526	526	518	514	511	570
85°	122	133	133	133	133	144
90°	6	16	34	36	36	15
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°	4223.5	4223.5	4223.5	4223.5	4223.5
2.5°	4250.2	4215.4	4223.5	4217.2	4199.9
5°	4238.3	4198.5	4212.4	4197.6	4197.6
7.5°	4209.5	4166.0	4179.9	4165.0	4164.3
10°	4182.8	4139.4	4153.2	4138.3	4134.7
12.5°	4144.3	4100.9	4117.7	4099.9	4099.2
15°	4075.5	4035.7	4053.3	4038.3	4031.1
17.5°	3997.7	3954.3	3975.5	3954.7	3951.8
20°	3938.5	3895.1	3916.3	3886.7	3886.7
22.5°	3867.4	3824.0	3848.2	3809.7	3809.7
25°	3753.4	3710.0	3727.5	3694.1	3690.5
27.5°	3618.0	3575.2	3593.5	3555.8	3555.0
30°	3520.2	3480.4	3501.7	3460.9	3457.3
32.5°	3413.6	3376.7	3392.2	3351.4	3347.7
35°	3242.6	3210.0	3220.4	3183.3	3179.7
37.5°	3062.7	3029.4	3041.2	3009.4	3007.9
40°	2935.4	2913.7	2916.9	2890.8	2883.6
42.5°	2816.9	2792.3	2795.5	2769.5	2768.1
45°	2635.5	2617.5	2617.0	2591.1	2591.1
47.5°	2443.1	2429.3	2425.3	2403.8	2403.1
50°	2309.8	2298.9	2295.0	2276.4	2272.8
52.5°	2170.6	2165.6	2152.9	2137.3	2136.6
55°	1954.5	1947.2	1928.5	1917.4	1913.7
57.5°	1719.8	1705.3	1684.2	1668.0	1670.9
60°	1551.0	1536.5	1506.6	1499.2	1499.2
62.5°	1388.1	1370.7	1340.7	1330.5	1336.3
65°	1154.9	1133.2	1106.8	1099.5	1103.1
67.5°	943.2	923.6	895.1	895.0	892.1
70°	807.0	796.1	773.6	773.6	773.6
72.5°	685.5	680.5	664.1	664.0	661.1
75°	525.6	525.6	518.2	514.4	510.8
77.5°	393.9	395.3	391.6	387.8	381.3
80°	310.9	318.2	314.6	310.9	307.2
82.5°	233.9	241.2	240.6	233.9	233.2
85°	122.2	133.0	133.3	133.3	133.3
87.5°	33.7	47.5	54.1	54.7	57.6
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)