

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: P564377

Luminaire Tested: **SQ4-PR1-125U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564377
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

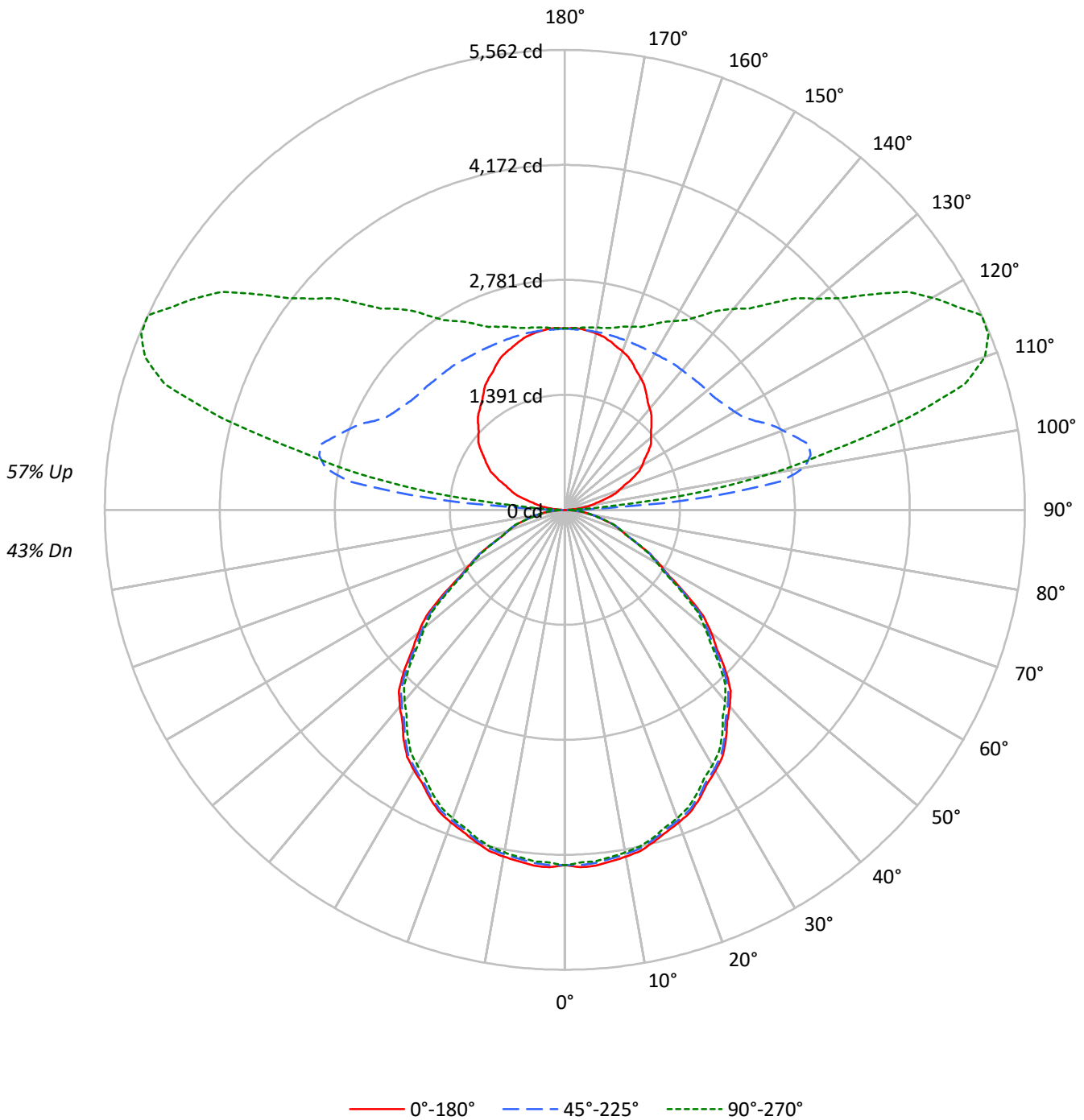
Lumens per Lamp: N/A
Luminaire Lumens: 24907.6 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43		
1	96	92	89	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	48	45	39	38	36	31		
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27		
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23		
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20		
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18		
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16		
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14		
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13		
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13220	13220	13220
5°	13339	13236	13168
10°	13297	13204	13135
15°	13238	13156	13085
20°	13172	13087	12990
25°	13079	12991	12840
30°	12938	12846	12662
35°	12747	12636	12455
40°	12456	12323	12099
45°	11948	11739	11498
50°	11054	10788	10576
55°	9648	9430	9231
60°	8130	8062	7903
65°	7032	7059	7005
70°	6459	6492	6492
75°	6204	6204	6248
80°	5836	5901	5836
85°	4704	5226	5226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.5	1.6
10°-20°	1163.0	4.7
20°-30°	1754.2	7.0
30°-40°	2090.1	8.4
40°-50°	2060.7	8.3
50°-60°	1574.9	6.3
60°-70°	974.6	3.9
70°-80°	553.6	2.2
80°-90°	173.5	0.7
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°	3323.7	13.3
0°-40°	5413.9	21.7
0°-60°	9049.4	36.3
0°-90°	10751.1	43.2
90°-120°	6689.3	26.9
90°-150°	12305.3	49.4
90°-180°	14156.0	56.8
0°-180°	24907.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4299	4299	4299	4299	4299	
5°	4321	4274	4288	4272	4265	410
15°	4158	4114	4132	4117	4110	1173
25°	3854	3807	3828	3788	3784	1774
35°	3395	3355	3366	3321	3317	2119
45°	2747	2711	2699	2651	2644	2105
55°	1799	1770	1759	1729	1722	1612
65°	966	959	970	963	963	979
75°	522	522	522	526	526	551
85°	133	140	148	148	148	155
90°	6	16	34	36	36	16
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°	4298.6	4298.6	4298.6	4298.6	4298.6
2.5°	4325.2	4287.6	4298.6	4289.2	4269.0
5°	4320.8	4273.7	4287.5	4272.5	4265.3
7.5°	4287.5	4241.1	4254.9	4240.0	4235.6
10°	4257.9	4214.4	4228.2	4213.3	4206.0
12.5°	4225.3	4178.9	4195.7	4177.7	4170.5
15°	4157.9	4114.4	4132.0	4117.0	4109.8
17.5°	4083.8	4037.5	4055.0	4037.7	4028.3
20°	4024.6	3981.2	3998.7	3972.7	3969.1
22.5°	3959.4	3916.0	3933.5	3898.7	3898.0
25°	3854.3	3807.2	3828.4	3787.6	3783.9
27.5°	3729.1	3685.7	3703.2	3661.7	3657.3
30°	3643.2	3599.8	3617.3	3572.7	3565.5
32.5°	3545.5	3505.0	3519.6	3475.1	3470.7
35°	3395.2	3355.4	3365.6	3321.0	3317.4
37.5°	3224.1	3187.9	3193.8	3144.8	3141.2
40°	3102.7	3066.5	3069.4	3017.4	3013.8
42.5°	2969.4	2933.2	2930.1	2878.2	2874.6
45°	2747.2	2711.0	2699.1	2650.8	2643.6
47.5°	2494.0	2457.8	2435.5	2396.1	2391.1
50°	2310.3	2274.1	2254.8	2221.2	2210.4
52.5°	2111.9	2075.7	2059.3	2028.7	2017.9
55°	1799.4	1770.4	1758.7	1728.9	1721.7
57.5°	1502.5	1482.9	1479.5	1450.6	1447.7
60°	1321.8	1310.9	1310.7	1284.8	1284.8
62.5°	1167.8	1159.8	1165.5	1148.4	1145.5
65°	966.3	959.1	970.1	962.6	962.6
67.5°	807.1	807.1	813.8	810.8	810.8
70°	718.3	718.3	722.0	722.0	722.0
72.5°	638.3	635.4	645.0	644.9	642.0
75°	522.1	522.1	522.1	525.8	525.8
77.5°	406.5	407.3	410.2	409.4	406.5
80°	329.5	333.1	333.2	329.5	329.5
82.5°	252.5	256.1	256.2	255.4	252.5
85°	133.3	140.5	148.1	148.1	148.1
87.5°	39.6	53.4	65.9	66.4	63.5
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)