

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: P563729

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563729
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-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 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: 27956.6 lumens
Efficiency: N/A
Efficacy: 119.6 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

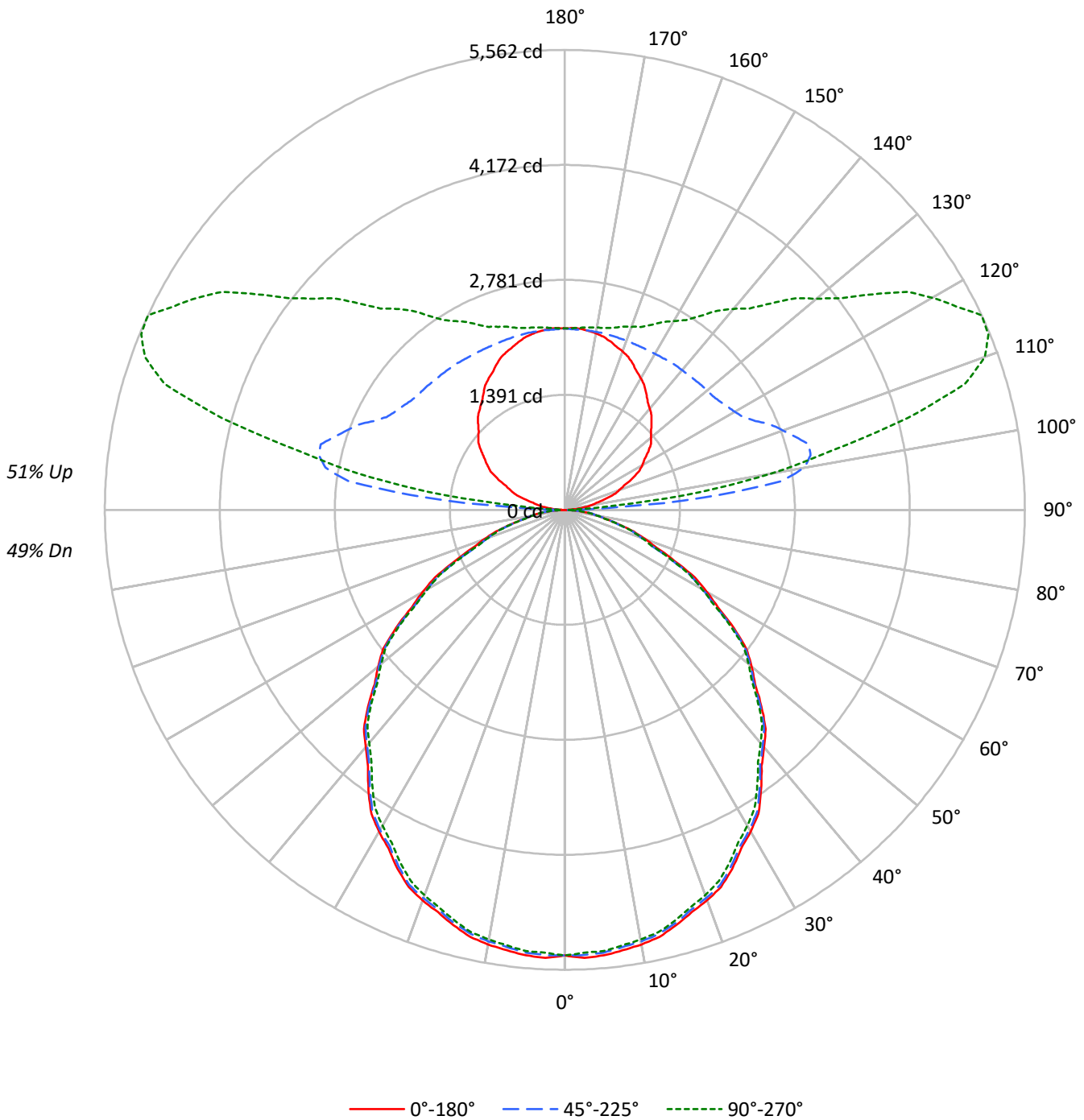
Input Watts (W): 233.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15038	14944	14773
45°	14628	14525	14381
50°	14103	14012	13877
55°	13373	13196	13095
60°	12174	11826	11767
65°	10725	10278	10244
70°	9260	8878	8878
75°	7971	7858	7746
80°	7028	7111	6944
85°	5501	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	1.8
10°-20°	1455.2	5.2
20°-30°	2179.8	7.8
30°-40°	2556.7	9.1
40°-50°	2564.7	9.2
50°-60°	2187.9	7.8
60°-70°	1426.9	5.1
70°-80°	715.9	2.6
80°-90°	203.3	0.7
90°-100°	1025.9	3.7
100°-110°	2763.4	9.9
110°-120°	2900.1	10.4
120°-130°	2353.3	8.4
130°-140°	1845.6	6.6
140°-150°	1417.0	5.1
150°-160°	1018.8	3.6
160°-170°	622.4	2.2
170°-180°	209.9	0.8
0°-30°	4144.7	14.8
0°-40°	6701.4	24.0
0°-60°	11454.0	41.0
0°-90°	13800.1	49.4
90°-120°	6689.3	23.9
90°-150°	12305.3	44.0
90°-180°	14156.0	50.6
0°-180°	27956.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5390	5390	5390	5390	5390	
5°	5409	5358	5376	5357	5357	514
15°	5201	5150	5172	5153	5144	1467
25°	4790	4734	4757	4714	4710	2203
35°	4138	4096	4110	4062	4058	2585
45°	3363	3340	3340	3307	3307	2590
55°	2494	2485	2461	2447	2442	2217
65°	1474	1446	1412	1403	1408	1471
75°	671	671	661	656	652	728
85°	156	170	170	170	170	183
90°	6	16	34	36	36	17
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	

TEST NUMBER: P563729

CATALOG NUMBER: SQ4-PP3-125U-125D-830-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	5423.8	5379.5	5389.8	5381.7	5359.6
5°	5408.7	5357.9	5375.6	5356.7	5356.7
7.5°	5371.9	5316.4	5334.1	5315.1	5314.2
10°	5337.8	5282.4	5300.1	5281.1	5276.4
12.5°	5288.7	5233.3	5254.7	5232.0	5231.1
15°	5200.9	5150.0	5172.5	5153.4	5144.2
17.5°	5101.7	5046.2	5073.3	5046.8	5043.1
20°	5026.1	4970.7	4997.7	4959.9	4959.9
22.5°	4935.4	4880.0	4910.8	4861.7	4861.7
25°	4789.9	4734.5	4756.8	4714.2	4709.6
27.5°	4617.0	4562.5	4585.8	4537.6	4536.7
30°	4492.3	4441.5	4468.7	4416.6	4412.0
32.5°	4356.2	4309.1	4328.8	4276.8	4272.2
35°	4138.0	4096.4	4109.7	4062.3	4057.7
37.5°	3908.4	3865.9	3881.0	3840.4	3838.5
40°	3745.9	3718.2	3722.3	3689.0	3679.8
42.5°	3594.8	3563.4	3567.4	3534.3	3532.4
45°	3363.3	3340.2	3339.7	3306.6	3306.6
47.5°	3117.7	3100.1	3095.0	3067.6	3066.7
50°	2947.6	2933.8	2928.7	2905.0	2900.4
52.5°	2770.0	2763.5	2747.3	2727.5	2726.6
55°	2494.1	2484.9	2461.1	2446.8	2442.2
57.5°	2194.7	2176.2	2149.3	2128.6	2132.3
60°	1979.3	1960.8	1922.6	1913.1	1913.1
62.5°	1771.4	1749.2	1710.9	1697.9	1705.3
65°	1473.8	1446.1	1412.4	1403.1	1407.7
67.5°	1203.6	1178.7	1142.2	1142.1	1138.4
70°	1029.8	1015.9	987.3	987.3	987.3
72.5°	874.8	868.4	847.4	847.4	843.7
75°	670.8	670.8	661.3	656.5	651.9
77.5°	502.6	504.5	499.8	494.9	486.5
80°	396.8	406.0	401.5	396.7	392.1
82.5°	298.5	307.8	307.0	298.5	297.6
85°	155.9	169.7	170.1	170.1	170.1
87.5°	42.7	59.7	67.2	67.8	71.5
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

TEST NUMBER: P563729

CATALOG NUMBER: SQ4-PP3-125U-125D-830-1D-UNV-STD-W-12

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)