

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: P564412

Luminaire Tested: **SQ4-PR1-125U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564412
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-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

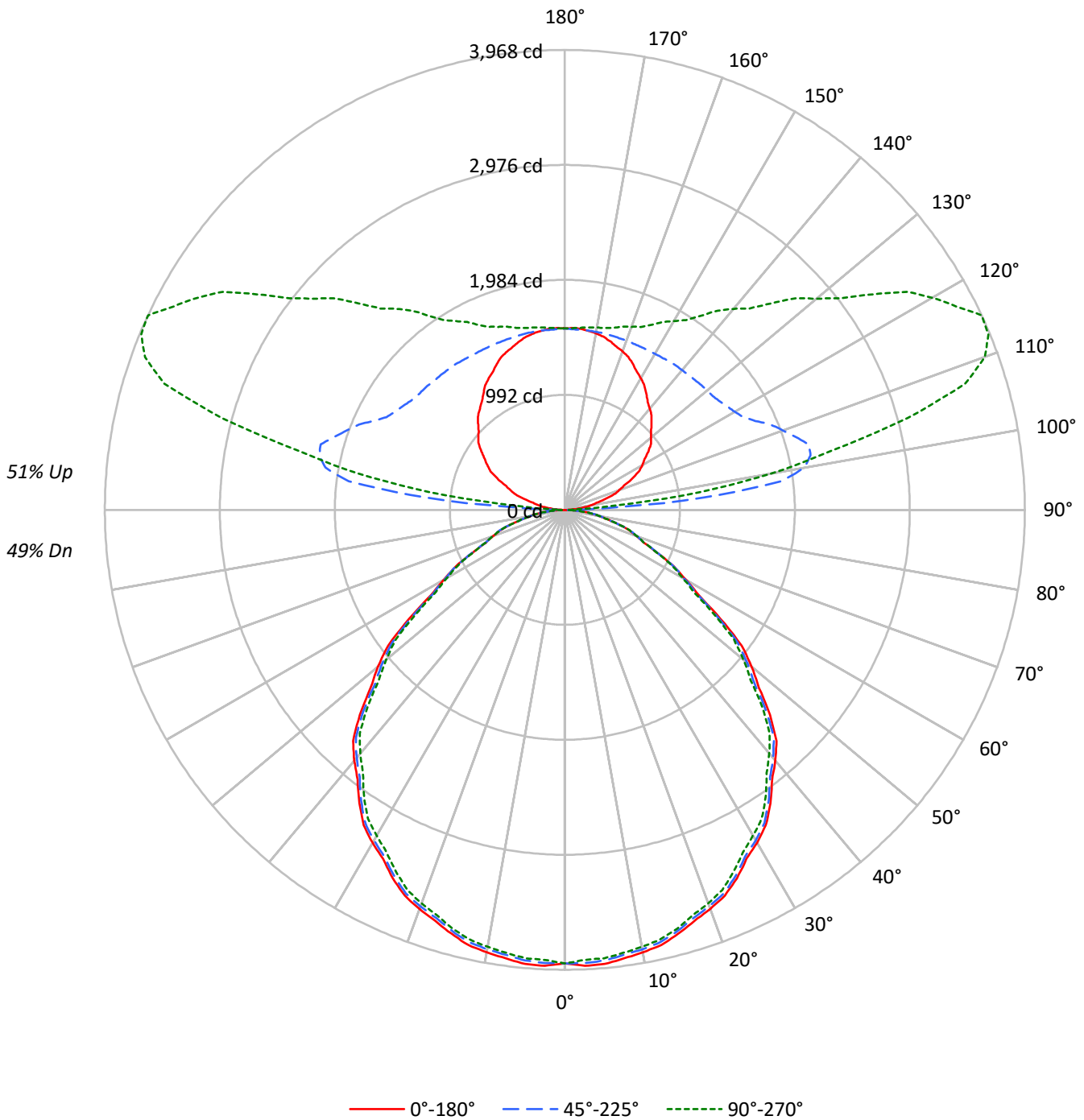
Lumens per Lamp: N/A
Luminaire Lumens: 19886.1 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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	55	55	55	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	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17982
10°	18158	18032	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16827	16523
45°	16317	16031	15701
50°	15095	14732	14442
55°	13176	12877	12606
60°	11103	11009	10791
65°	9603	9640	9566
70°	8820	8866	8866
75°	8472	8472	8530
80°	7970	8060	7970
85°	6420	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	1.9
10°-20°	1058.8	5.3
20°-30°	1597.0	8.0
30°-40°	1902.9	9.6
40°-50°	1876.1	9.4
50°-60°	1433.8	7.2
60°-70°	887.3	4.5
70°-80°	504.0	2.5
80°-90°	157.0	0.8
90°-100°	731.8	3.7
100°-110°	1971.4	9.9
110°-120°	2068.9	10.4
120°-130°	1678.9	8.4
130°-140°	1316.7	6.6
140°-150°	1010.9	5.1
150°-160°	726.8	3.7
160°-170°	444.1	2.2
170°-180°	149.7	0.8
0°-30°	3025.9	15.2
0°-40°	4928.8	24.8
0°-60°	8238.6	41.4
0°-90°	9786.8	49.2
90°-120°	4772.2	24.0
90°-150°	8778.6	44.1
90°-180°	10099.0	50.8
0°-180°	19886.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3913	3913	3913	3913	3913	
5°	3934	3891	3903	3890	3883	373
15°	3785	3746	3762	3748	3742	1068
25°	3509	3466	3485	3448	3445	1615
35°	3091	3055	3064	3024	3020	1929
45°	2501	2468	2457	2413	2407	1916
55°	1638	1612	1601	1574	1567	1468
65°	880	873	883	876	876	891
75°	475	475	475	479	479	502
85°	121	128	135	135	135	141
90°	4	12	24	26	26	13
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3913.4	3913.4	3913.4	3913.4	3913.4
2.5°	3937.7	3903.4	3913.4	3904.9	3886.5
5°	3933.6	3890.8	3903.3	3889.7	3883.1
7.5°	3903.3	3861.1	3873.6	3860.1	3856.1
10°	3876.3	3836.8	3849.4	3835.7	3829.1
12.5°	3846.7	3804.5	3819.7	3803.4	3796.8
15°	3785.3	3745.8	3761.7	3748.1	3741.5
17.5°	3717.9	3675.7	3691.6	3675.9	3667.4
20°	3664.0	3624.4	3640.4	3616.7	3613.4
22.5°	3604.7	3565.1	3581.1	3549.4	3548.7
25°	3508.9	3466.1	3485.3	3448.2	3444.9
27.5°	3395.0	3355.4	3371.4	3333.6	3329.6
30°	3316.8	3277.2	3293.2	3252.6	3246.0
32.5°	3227.8	3190.9	3204.2	3163.7	3159.7
35°	3091.0	3054.7	3064.0	3023.5	3020.2
37.5°	2935.2	2902.3	2907.6	2863.0	2859.7
40°	2824.7	2791.7	2794.3	2747.1	2743.8
42.5°	2703.3	2670.4	2667.6	2620.3	2617.0
45°	2501.1	2468.1	2457.3	2413.3	2406.7
47.5°	2270.5	2237.6	2217.3	2181.4	2176.8
50°	2103.3	2070.4	2052.8	2022.2	2012.3
52.5°	1922.7	1889.7	1874.8	1846.9	1837.0
55°	1638.2	1611.8	1601.1	1574.0	1567.4
57.5°	1367.8	1350.0	1346.9	1320.6	1318.0
60°	1203.4	1193.5	1193.2	1169.6	1169.6
62.5°	1063.1	1055.9	1061.1	1045.5	1042.9
65°	879.8	873.2	883.1	876.4	876.4
67.5°	734.8	734.8	740.9	738.2	738.2
70°	653.9	653.9	657.3	657.3	657.3
72.5°	581.1	578.5	587.2	587.1	584.5
75°	475.3	475.3	475.3	478.6	478.6
77.5°	370.1	370.8	373.5	372.7	370.1
80°	300.0	303.3	303.4	300.0	300.0
82.5°	229.9	233.2	233.3	232.5	229.9
85°	121.3	127.9	134.8	134.8	134.8
87.5°	35.9	48.0	58.7	59.1	56.4
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)