

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: P564794

Luminaire Tested: **SQ4-PW1-075U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564794
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

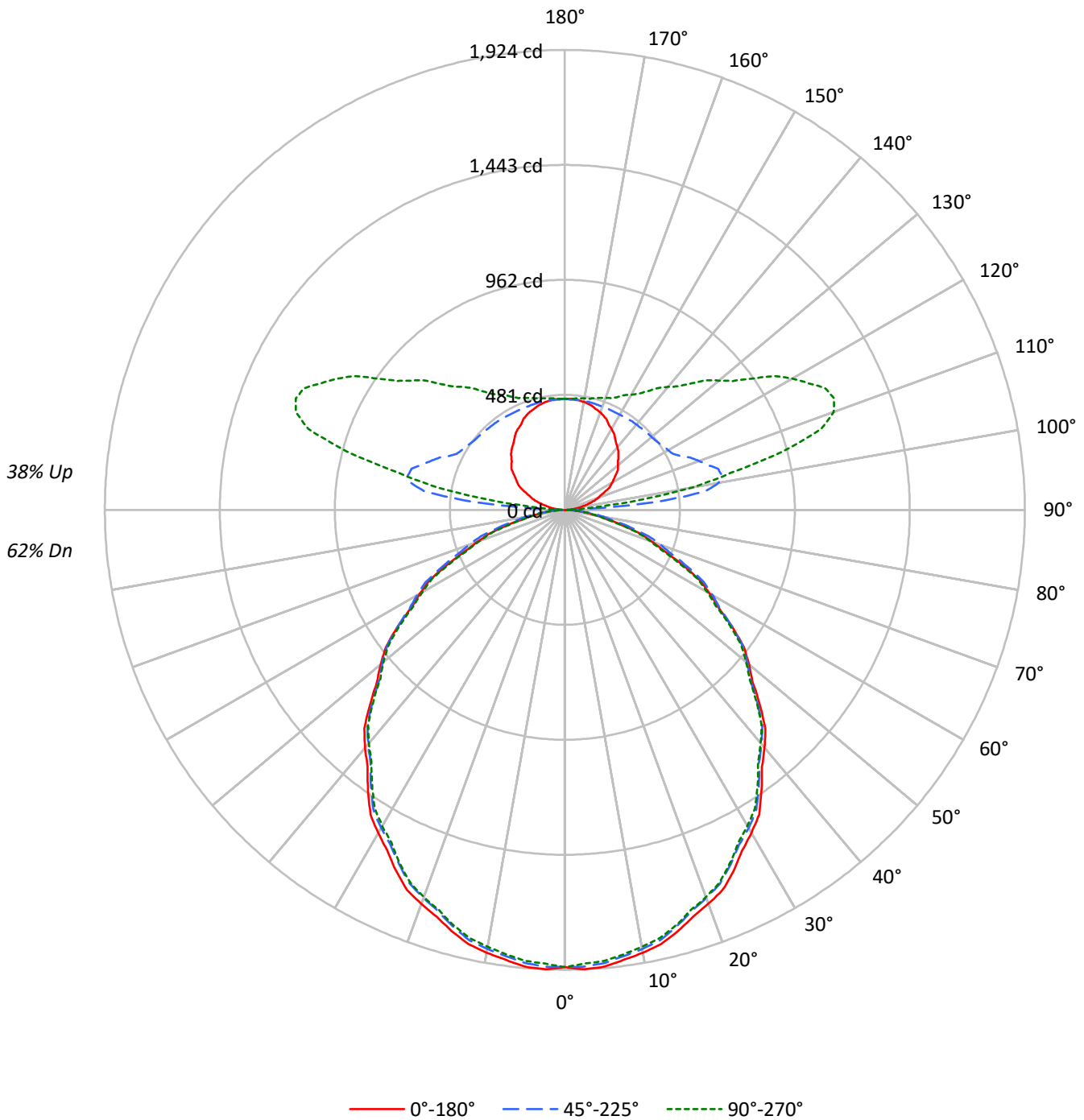
Lumens per Lamp: N/A
Luminaire Lumens: 7892.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17649	17649	17649
5°	17763	17623	17545
10°	17621	17479	17384
15°	17435	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15345
45°	15042	14843	14778
50°	14418	14297	14200
55°	13745	13745	13528
60°	12906	13155	12688
65°	11811	12400	11516
70°	10410	11411	10137
75°	8890	10213	8652
80°	6896	8597	6987
85°	4457	6606	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	2.3
10°-20°	508.6	6.4
20°-30°	754.4	9.6
30°-40°	882.7	11.2
40°-50°	878.7	11.1
50°-60°	758.8	9.6
60°-70°	546.2	6.9
70°-80°	286.4	3.6
80°-90°	72.2	0.9
90°-100°	218.9	2.8
100°-110°	602.3	7.6
110°-120°	621.7	7.9
120°-130°	498.1	6.3
130°-140°	391.2	5.0
140°-150°	299.8	3.8
150°-160°	215.6	2.7
160°-170°	131.8	1.7
170°-180°	44.4	0.6
0°-30°	1443.0	18.3
0°-40°	2325.7	29.5
0°-60°	3963.3	50.2
0°-90°	4868.1	61.7
90°-120°	1442.9	18.3
90°-150°	2632.1	33.4
90°-180°	3024.0	38.3
0°-180°	7892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1918	1896	1903	1898	1894	182
15°	1825	1802	1805	1802	1798	514
25°	1668	1640	1638	1628	1633	767
35°	1434	1414	1414	1401	1406	897
45°	1153	1143	1138	1134	1133	889
55°	854	853	854	843	841	762
65°	541	558	568	546	528	536
75°	249	272	286	267	243	267
85°	42	55	62	59	56	56
90°	1	4	7	9	9	4
95°	33	120	387	166	106	34
105°	108	166	664	1011	943	113
115°	191	232	532	1060	1203	188
125°	263	299	483	817	957	234
135°	317	352	469	661	748	245
145°	366	392	462	563	606	230
155°	415	428	459	506	520	191
165°	448	454	461	480	483	126
175°	464	465	462	468	467	44
180°	464	464	464	464	464	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1923.7	1907.9	1912.9	1908.6	1899.4
5°	1918.0	1896.5	1902.8	1897.7	1894.4
7.5°	1898.4	1878.6	1883.2	1877.8	1875.8
10°	1880.9	1861.1	1865.7	1858.9	1855.6
12.5°	1860.6	1839.6	1844.1	1837.3	1835.4
15°	1825.3	1802.2	1805.0	1801.6	1798.3
17.5°	1784.1	1760.7	1761.2	1755.8	1755.1
20°	1754.5	1729.8	1727.5	1720.8	1724.1
22.5°	1722.1	1696.1	1693.8	1684.5	1689.1
25°	1668.5	1640.5	1638.2	1628.2	1633.1
27.5°	1606.5	1578.8	1578.9	1564.8	1570.1
30°	1560.7	1534.3	1537.1	1520.4	1526.9
32.5°	1512.1	1488.4	1489.9	1473.2	1479.8
35°	1434.2	1414.5	1414.0	1400.7	1405.6
37.5°	1354.7	1337.2	1334.5	1326.8	1328.1
40°	1299.4	1284.6	1279.2	1274.1	1274.1
42.5°	1241.4	1227.9	1222.6	1218.8	1217.5
45°	1152.8	1142.9	1137.6	1134.2	1132.6
47.5°	1065.2	1055.9	1051.3	1048.9	1047.3
50°	1004.5	997.9	996.1	991.0	989.3
52.5°	943.8	939.9	938.1	931.6	930.0
55°	854.5	852.8	854.5	842.6	841.0
57.5°	761.5	764.1	769.5	753.6	749.7
60°	699.4	706.0	712.9	694.2	687.6
62.5°	636.1	646.6	656.3	634.8	625.6
65°	541.0	557.5	568.0	545.6	527.5
67.5°	449.3	469.8	482.4	458.3	437.9
70°	385.9	409.0	423.0	398.9	375.8
72.5°	330.7	356.4	367.7	345.0	321.9
75°	249.4	272.5	286.5	267.4	242.7
77.5°	177.0	198.7	210.3	193.7	173.3
80°	129.8	152.8	161.8	147.9	131.5
82.5°	92.0	111.1	117.3	109.0	97.8
85°	42.1	55.3	62.4	58.9	55.6
87.5°	11.0	20.8	27.0	27.4	28.7
90°	1.0	3.9	6.9	8.9	8.9
92.5°	13.6	58.2	100.9	38.8	31.8
95°	32.6	119.5	387.1	165.5	105.7
97.5°	53.1	132.5	590.8	455.2	321.2
100°	68.1	140.6	654.8	660.9	539.2
102.5°	82.4	150.2	671.4	819.9	708.3
105°	107.6	165.6	663.7	1010.8	943.2
107.5°	131.7	184.7	625.9	1104.2	1124.3
110°	149.1	197.4	597.5	1127.4	1197.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.9	211.7	569.1	1112.5	1218.3
115°	190.6	232.1	532.3	1060.0	1202.9
117.5°	215.1	253.3	509.0	986.3	1148.0
120°	230.1	266.8	498.7	931.2	1098.2
122.5°	243.5	280.2	491.6	882.8	1041.3
125°	262.7	299.4	482.9	817.0	957.0
127.5°	280.9	315.8	477.2	762.1	884.9
130°	290.4	326.1	474.1	729.4	841.4
132.5°	301.4	337.1	471.7	700.7	801.9
135°	317.0	351.8	469.1	660.7	747.6
137.5°	331.6	363.9	466.9	628.4	700.0
140°	342.7	372.6	466.1	606.9	671.6
142.5°	352.2	379.8	464.6	587.7	643.1
145°	366.4	391.5	462.2	562.9	606.4
147.5°	381.6	403.2	461.0	541.0	575.8
150°	391.1	410.4	460.2	529.0	556.0
152.5°	399.8	417.6	459.4	518.6	541.0
155°	414.8	428.3	459.2	506.0	520.5
157.5°	425.7	436.7	459.2	495.6	505.7
160°	433.6	442.2	459.2	490.0	497.8
162.5°	439.9	447.0	460.0	485.3	491.4
165°	448.4	454.2	461.2	480.0	482.9
167.5°	454.3	458.7	462.2	475.6	476.4
170°	458.2	461.1	462.2	474.1	474.1
172.5°	461.4	462.8	462.2	471.7	470.9
175°	464.2	465.1	462.2	468.1	467.1
177.5°	465.0	465.0	461.8	466.5	465.0
180°	464.2	464.2	464.2	464.2	464.2

(END OF REPORT)