

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: P563450

Luminaire Tested: **SQ4-PP3-075U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563450
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

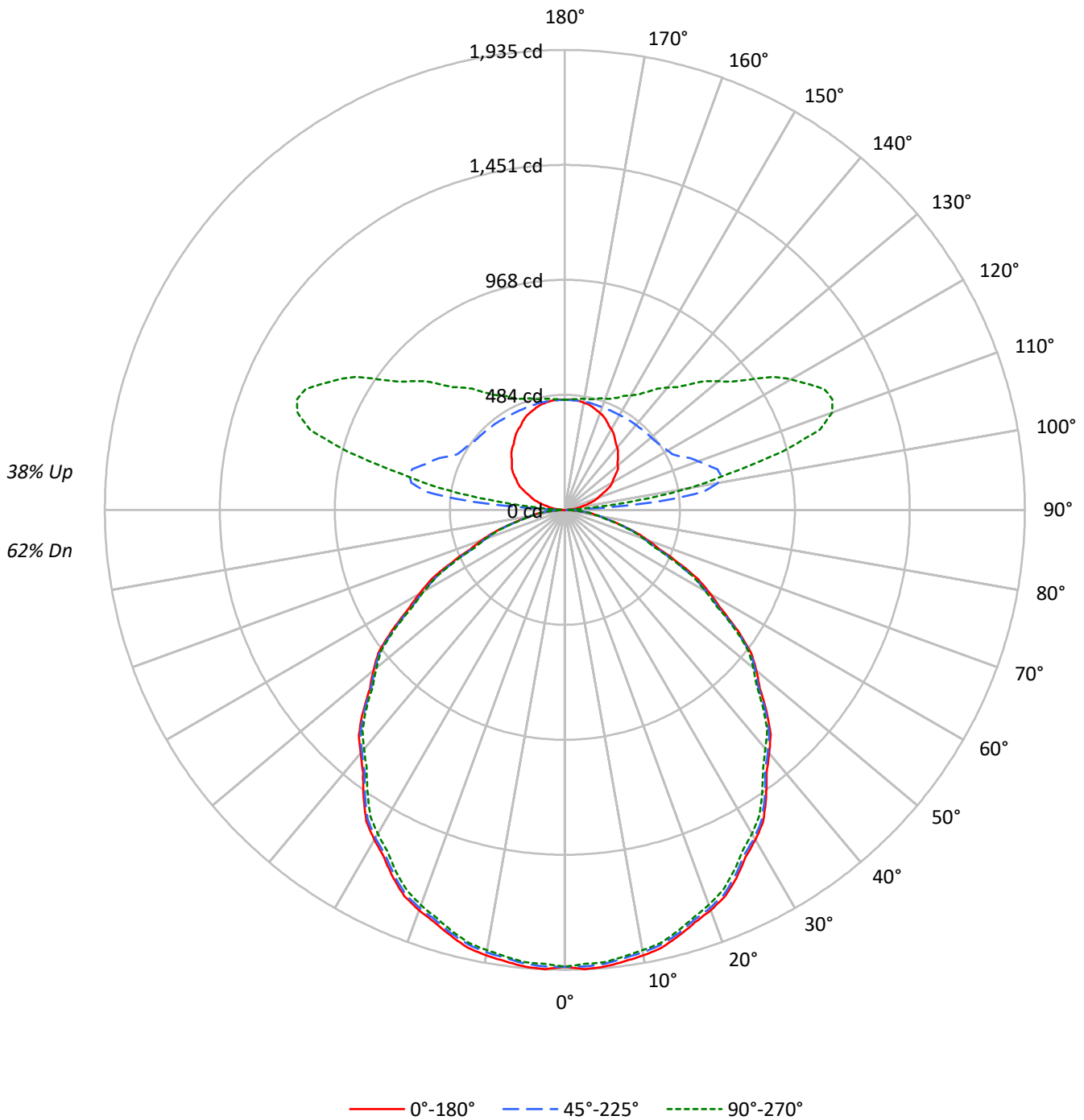
Lumens per Lamp: N/A
Luminaire Lumens: 7945.8 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17697
10°	17838	17711	17633
15°	17720	17623	17526
20°	17602	17503	17371
25°	17394	17273	17101
30°	17071	16982	16766
35°	16624	16511	16302
40°	16093	15992	15809
45°	15653	15544	15390
50°	15091	14995	14850
55°	14311	14121	14012
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9501	9501
75°	8530	8409	8288
80°	7518	7608	7433
85°	5886	6426	6426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	2.3
10°-20°	519.1	6.5
20°-30°	777.5	9.8
30°-40°	912.0	11.5
40°-50°	914.9	11.5
50°-60°	780.4	9.8
60°-70°	509.0	6.4
70°-80°	255.4	3.2
80°-90°	71.9	0.9
90°-100°	218.9	2.8
100°-110°	602.3	7.6
110°-120°	621.7	7.8
120°-130°	498.1	6.3
130°-140°	391.2	4.9
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°	1478.4	18.6
0°-40°	2390.4	30.1
0°-60°	4085.7	51.4
0°-90°	4921.9	61.9
90°-120°	1442.9	18.2
90°-150°	2632.1	33.1
90°-180°	3024.0	38.1
0°-180°	7945.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1929	1911	1918	1911	1911	183
15°	1855	1837	1845	1838	1835	523
25°	1709	1689	1697	1682	1680	786
35°	1476	1461	1466	1449	1447	922
45°	1200	1192	1191	1180	1180	924
55°	890	886	878	873	871	791
65°	526	516	504	500	502	525
75°	239	239	236	234	232	260
85°	56	60	61	61	61	65
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°	1922.6	1922.6	1922.6	1922.6	1922.6
2.5°	1934.7	1918.9	1922.6	1919.7	1911.8
5°	1929.3	1911.2	1917.5	1910.8	1910.8
7.5°	1916.1	1896.4	1902.7	1895.9	1895.6
10°	1904.0	1884.2	1890.5	1883.8	1882.1
12.5°	1886.5	1866.7	1874.4	1866.3	1865.9
15°	1855.2	1837.0	1845.0	1838.2	1834.9
17.5°	1819.8	1800.0	1809.7	1800.2	1798.9
20°	1792.8	1773.0	1782.7	1769.2	1769.2
22.5°	1760.5	1740.7	1751.7	1734.2	1734.2
25°	1708.6	1688.8	1696.8	1681.6	1679.9
27.5°	1646.9	1627.4	1635.8	1618.6	1618.2
30°	1602.4	1584.3	1594.0	1575.4	1573.8
32.5°	1553.9	1537.1	1544.1	1525.5	1523.9
35°	1476.0	1461.2	1465.9	1449.0	1447.4
37.5°	1394.1	1379.0	1384.4	1369.9	1369.2
40°	1336.2	1326.3	1327.8	1315.9	1312.6
42.5°	1282.3	1271.1	1272.5	1260.7	1260.0
45°	1199.7	1191.5	1191.3	1179.5	1179.5
47.5°	1112.1	1105.8	1104.0	1094.2	1093.9
50°	1051.4	1046.5	1044.7	1036.2	1034.6
52.5°	988.1	985.8	980.0	972.9	972.6
55°	889.7	886.4	877.9	872.8	871.1
57.5°	782.8	776.2	766.7	759.3	760.6
60°	706.0	699.4	685.8	682.4	682.4
62.5°	631.9	624.0	610.3	605.6	608.3
65°	525.7	515.8	503.8	500.5	502.1
67.5°	429.3	420.4	407.4	407.4	406.1
70°	367.3	362.4	352.2	352.2	352.2
72.5°	312.1	309.7	302.3	302.3	300.9
75°	239.3	239.3	235.9	234.2	232.5
77.5°	179.3	179.9	178.3	176.5	173.6
80°	141.5	144.8	143.2	141.5	139.9
82.5°	106.5	109.8	109.5	106.5	106.2
85°	55.6	60.5	60.7	60.7	60.7
87.5°	15.0	20.9	23.0	23.4	24.7
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)