

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: P563546

Luminaire Tested: **SQ4-PP3-0U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563546
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

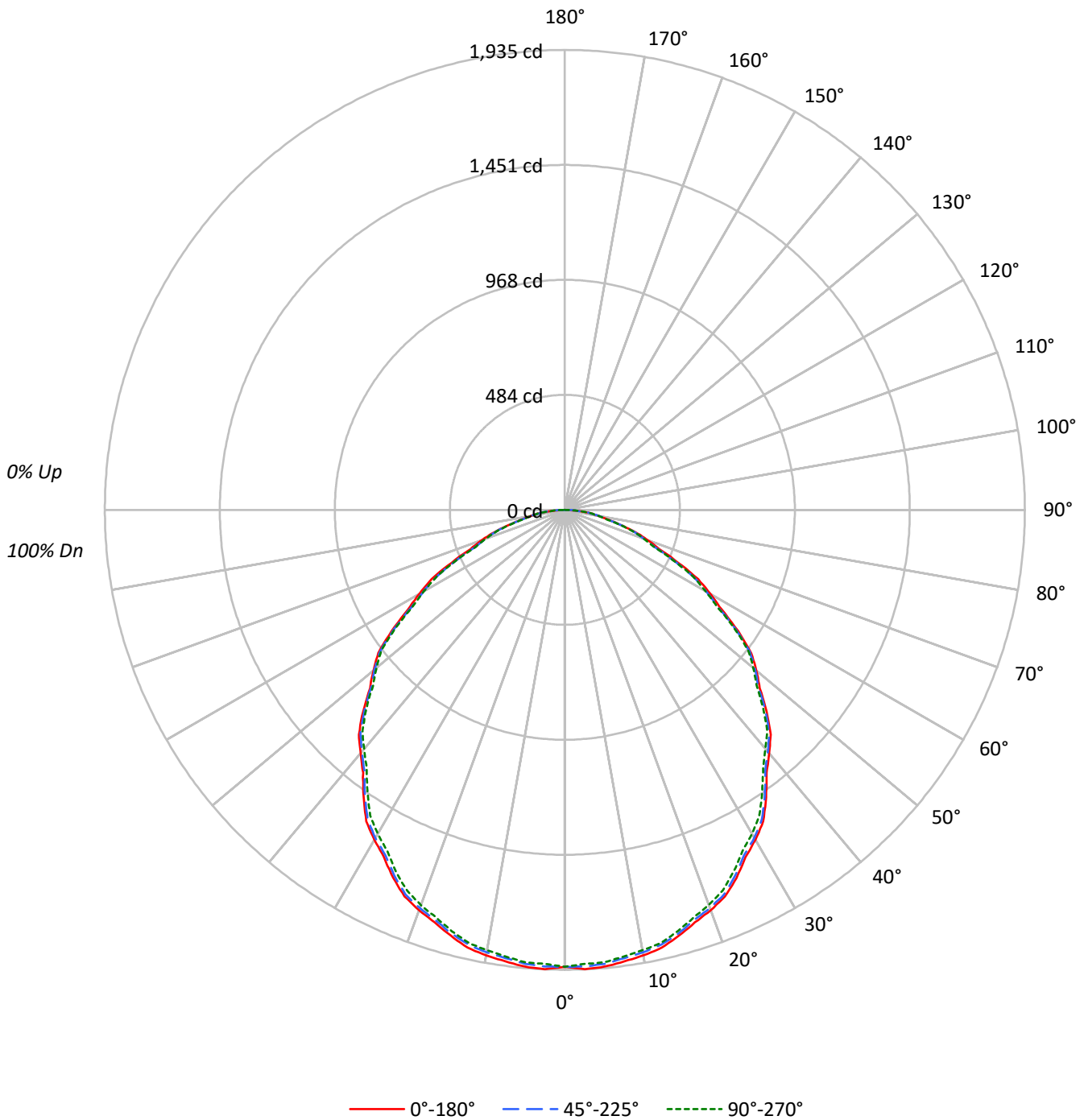
Lumens per Lamp: N/A
Luminaire Lumens: 4920.7 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85			85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72			72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53	
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36			36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32			32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29			29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			26	

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	3.7
10°-20°	519.1	10.5
20°-30°	777.5	15.8
30°-40°	912.0	18.5
40°-50°	914.9	18.6
50°-60°	780.4	15.9
60°-70°	509.0	10.3
70°-80°	255.4	5.2
80°-90°	70.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1478.4	30.0
0°-40°	2390.4	48.6
0°-60°	4085.7	83.0
0°-90°	4920.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4920.7	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	67
90°	0	0	0	0	0	



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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°	14.8	20.1	21.6	21.6	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)