

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: P563258

Luminaire Tested: **SQ4-PP3-025U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563258
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

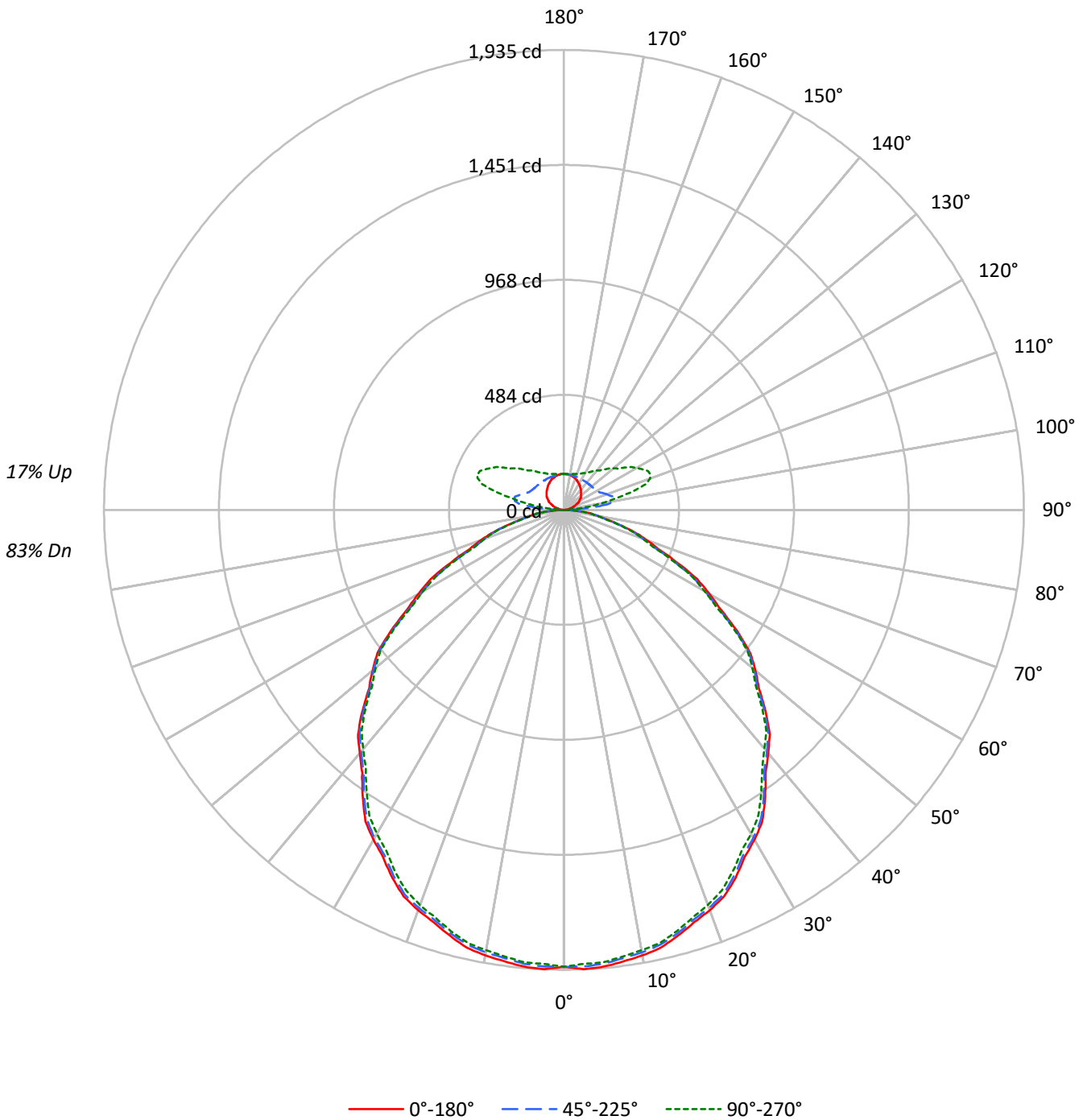
Lumens per Lamp: N/A
Luminaire Lumens: 5897.2 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

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	3.1
10°-20°	519.1	8.8
20°-30°	777.5	13.2
30°-40°	912.0	15.5
40°-50°	914.9	15.5
50°-60°	780.4	13.2
60°-70°	509.0	8.6
70°-80°	255.4	4.3
80°-90°	71.5	1.2
90°-100°	73.4	1.2
100°-110°	192.9	3.3
110°-120°	200.0	3.4
120°-130°	160.4	2.7
130°-140°	125.9	2.1
140°-150°	96.6	1.6
150°-160°	69.6	1.2
160°-170°	42.6	0.7
170°-180°	14.4	0.2
0°-30°	1478.4	25.1
0°-40°	2390.4	40.5
0°-60°	4085.7	69.3
0°-90°	4921.5	83.5
90°-120°	466.2	7.9
90°-150°	849.1	14.4
90°-180°	976.0	16.6
0°-180°	5897.2	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	3	8	4	4	3
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	



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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	20.7	23.1	22.4	23.7
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)