

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: P562678

Luminaire Tested: **SQ4-PC3-050U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562678
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

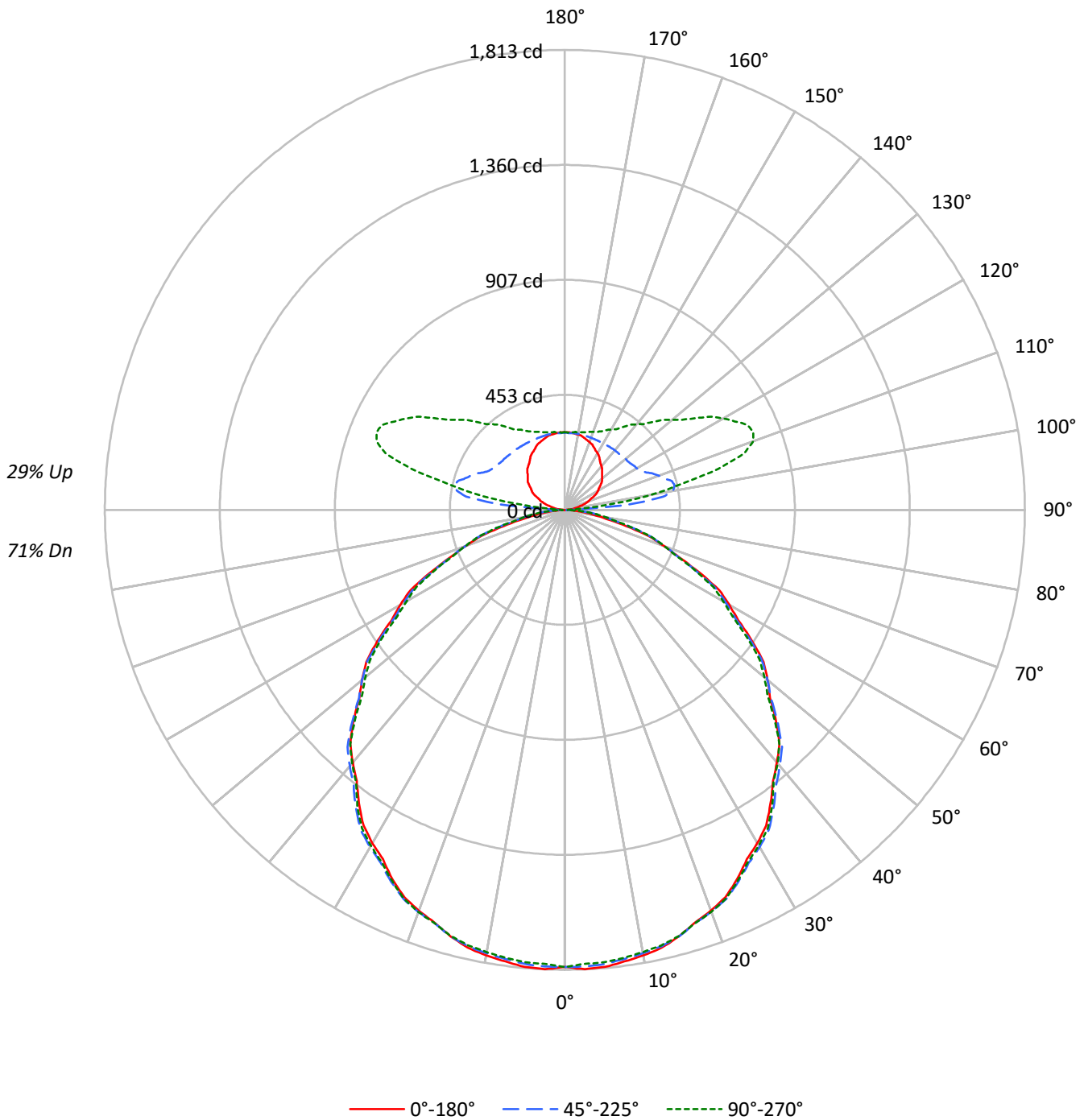
Lumens per Lamp: N/A
Luminaire Lumens: 6911.3 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16627	16627	16627
5°	16751	16644	16582
10°	16711	16633	16586
15°	16623	16623	16607
20°	16513	16563	16563
25°	16357	16476	16425
30°	16158	16354	16283
35°	15918	16163	16050
40°	15655	15876	15715
45°	15370	15480	15240
50°	14969	14969	14729
55°	14493	14306	14091
60°	13793	13516	13300
65°	12749	12494	12385
70°	11163	11252	11208
75°	8983	9935	9992
80°	6381	8421	8512
85°	3885	7061	7061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	2.5
10°-20°	489.4	7.1
20°-30°	741.2	10.7
30°-40°	888.6	12.9
40°-50°	906.0	13.1
50°-60°	790.9	11.4
60°-70°	566.2	8.2
70°-80°	291.6	4.2
80°-90°	74.9	1.1
90°-100°	146.4	2.1
100°-110°	397.8	5.8
110°-120°	409.0	5.9
120°-130°	327.0	4.7
130°-140°	257.0	3.7
140°-150°	197.0	2.9
150°-160°	141.7	2.1
160°-170°	86.7	1.3
170°-180°	29.2	0.4
0°-30°	1401.1	20.3
0°-40°	2289.7	33.1
0°-60°	3986.6	57.7
0°-90°	4919.4	71.2
90°-120°	953.3	13.8
90°-150°	1734.4	25.1
90°-180°	1992.0	28.8
0°-180°	6911.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1809	1791	1797	1792	1790	172
15°	1740	1726	1740	1740	1739	491
25°	1607	1595	1618	1614	1614	739
35°	1413	1410	1435	1425	1425	884
45°	1178	1175	1186	1171	1168	907
55°	901	890	889	876	876	803
65°	584	571	572	567	567	578
75°	252	263	279	280	280	272
85°	37	56	67	68	67	50
90°	1	4	7	9	9	3
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1802.1	1802.1	1802.1	1802.1	1802.1
2.5°	1812.7	1797.1	1802.1	1797.9	1791.4
5°	1808.7	1790.8	1797.1	1792.0	1790.4
7.5°	1795.7	1777.8	1786.0	1782.7	1781.0
10°	1783.7	1765.8	1775.4	1772.0	1770.4
12.5°	1767.7	1751.1	1762.0	1758.7	1758.3
15°	1740.3	1725.6	1740.3	1740.3	1738.7
17.5°	1706.0	1692.6	1708.3	1709.3	1708.3
20°	1681.9	1667.2	1686.9	1685.3	1686.9
22.5°	1652.6	1640.5	1661.6	1657.3	1658.9
25°	1606.8	1595.4	1618.5	1613.5	1613.5
27.5°	1552.8	1544.6	1569.8	1564.5	1564.5
30°	1516.7	1508.6	1535.1	1528.4	1528.4
32.5°	1476.7	1471.1	1496.4	1488.4	1488.4
35°	1413.3	1410.0	1435.0	1425.0	1425.0
37.5°	1347.9	1344.9	1367.6	1355.5	1351.5
40°	1299.8	1298.2	1318.2	1304.8	1304.8
42.5°	1251.8	1250.1	1267.5	1251.4	1251.4
45°	1178.0	1174.8	1186.4	1171.3	1168.0
47.5°	1097.6	1094.3	1101.6	1085.2	1083.6
50°	1042.9	1039.6	1042.9	1027.8	1026.2
52.5°	986.8	980.9	981.5	966.4	966.1
55°	901.0	889.6	889.4	876.0	876.0
57.5°	810.3	795.3	796.6	785.2	783.6
60°	747.5	731.2	732.5	722.5	720.8
62.5°	686.1	667.2	671.1	659.7	659.4
65°	584.0	571.0	572.3	567.3	567.3
67.5°	485.9	473.8	482.6	478.5	478.2
70°	413.8	405.6	417.1	417.1	415.5
72.5°	347.1	346.7	361.1	361.1	362.1
75°	252.0	263.4	278.7	280.3	280.3
77.5°	168.2	188.4	205.2	205.9	205.6
80°	120.1	143.0	158.5	161.8	160.2
82.5°	81.4	105.6	118.5	121.8	120.1
85°	36.7	56.3	66.7	68.4	66.7
87.5°	10.9	23.2	28.1	28.4	25.8
90°	1.0	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)