

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: P562655

Luminaire Tested: **SQ4-PC3-050U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562655
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-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

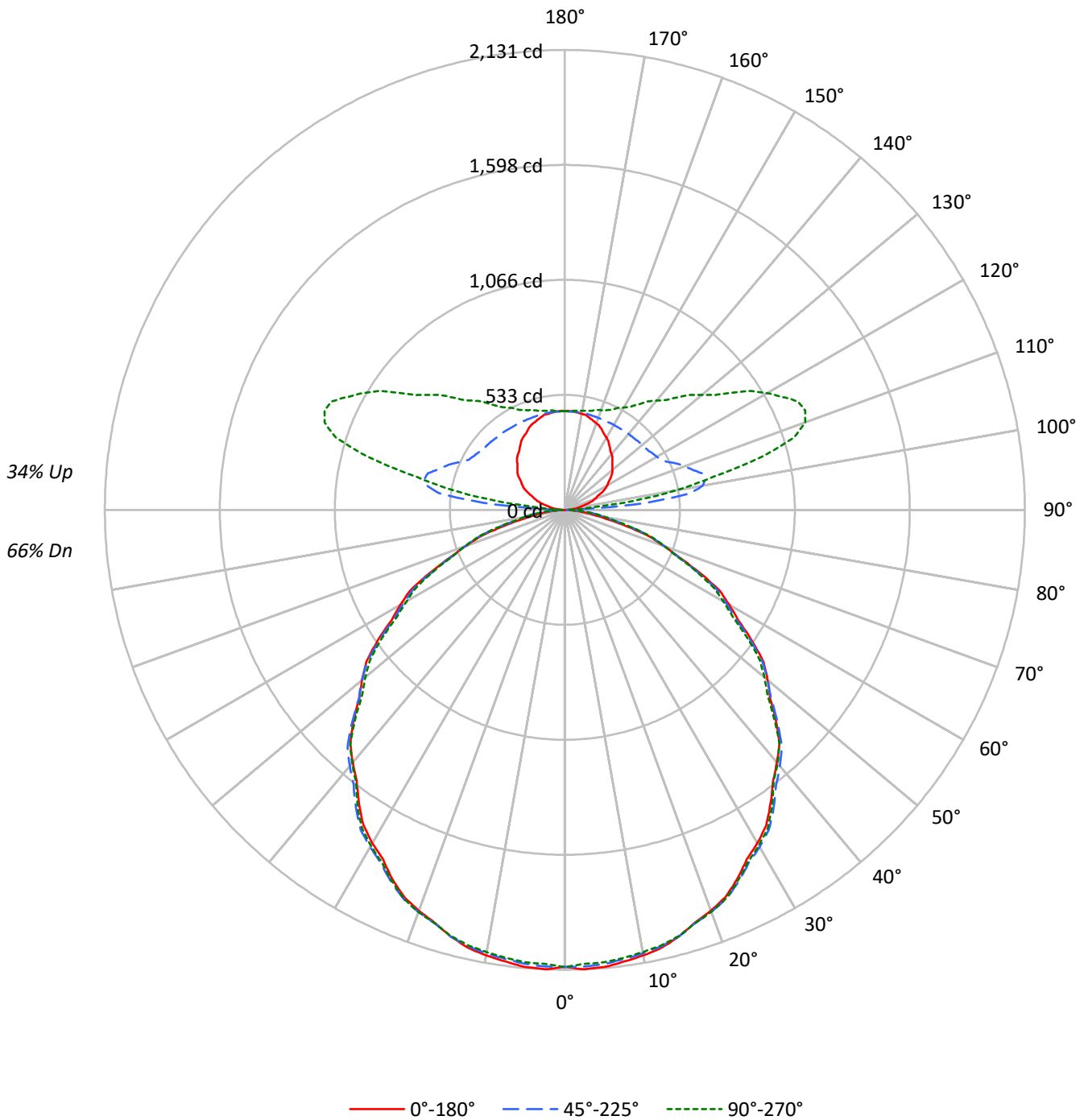
Lumens per Lamp: N/A
Luminaire Lumens: 8770.6 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12912	12872
30°	12662	12815	12759
35°	12474	12665	12576
40°	12267	12441	12315
45°	12045	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8783
75°	7039	7783	7831
80°	5001	6599	6670
85°	3042	5540	5540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	2.3
10°-20°	575.3	6.6
20°-30°	871.2	9.9
30°-40°	1044.4	11.9
40°-50°	1065.0	12.1
50°-60°	929.6	10.6
60°-70°	665.5	7.6
70°-80°	342.8	3.9
80°-90°	88.4	1.0
90°-100°	219.7	2.5
100°-110°	596.8	6.8
110°-120°	613.6	7.0
120°-130°	490.6	5.6
130°-140°	385.5	4.4
140°-150°	295.6	3.4
150°-160°	212.5	2.4
160°-170°	130.0	1.5
170°-180°	43.8	0.5
0°-30°	1646.9	18.8
0°-40°	2691.3	30.7
0°-60°	4685.9	53.4
0°-90°	5782.7	65.9
90°-120°	1430.0	16.3
90°-150°	2601.6	29.7
90°-180°	2988.0	34.1
0°-180°	8770.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2126	2105	2112	2106	2104	202
15°	2046	2028	2046	2046	2044	577
25°	1889	1875	1902	1897	1897	869
35°	1661	1657	1687	1675	1675	1039
45°	1385	1381	1394	1377	1373	1066
55°	1059	1046	1045	1030	1030	944
65°	686	671	673	667	667	679
75°	296	310	328	330	330	320
85°	43	66	78	80	78	59
90°	2	6	10	13	13	4
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	2130.7	2112.3	2118.2	2113.3	2105.6
5°	2126.0	2104.9	2112.3	2106.4	2104.5
7.5°	2110.7	2089.6	2099.4	2095.4	2093.5
10°	2096.6	2075.5	2086.8	2082.8	2080.9
12.5°	2077.8	2058.2	2071.1	2067.2	2066.8
15°	2045.6	2028.4	2045.6	2045.6	2043.7
17.5°	2005.2	1989.5	2008.0	2009.1	2008.0
20°	1977.0	1959.7	1982.9	1980.9	1982.9
22.5°	1942.5	1928.3	1953.1	1948.0	1949.9
25°	1888.7	1875.3	1902.5	1896.6	1896.6
27.5°	1825.2	1815.6	1845.2	1838.9	1838.9
30°	1782.8	1773.2	1804.4	1796.5	1796.5
32.5°	1735.7	1729.2	1758.9	1749.5	1749.5
35°	1661.2	1657.4	1686.7	1674.9	1674.9
37.5°	1584.3	1580.9	1607.5	1593.2	1588.6
40°	1527.8	1525.9	1549.4	1533.7	1533.7
42.5°	1471.4	1469.4	1489.8	1471.0	1471.0
45°	1384.7	1380.8	1394.5	1376.7	1372.9
47.5°	1290.1	1286.3	1294.8	1275.6	1273.7
50°	1225.8	1222.0	1225.8	1208.1	1206.2
52.5°	1159.9	1153.0	1153.6	1136.0	1135.6
55°	1059.1	1045.7	1045.4	1029.7	1029.7
57.5°	952.4	934.8	936.3	922.9	921.0
60°	878.7	859.5	861.0	849.2	847.3
62.5°	806.5	784.2	788.8	775.5	775.1
65°	686.5	671.1	672.7	666.8	666.8
67.5°	571.1	556.9	567.2	562.5	562.1
70°	486.4	476.8	490.3	490.3	488.4
72.5°	407.9	407.6	424.4	424.4	425.6
75°	296.2	309.6	327.5	329.5	329.5
77.5°	197.7	221.5	241.2	242.0	241.6
80°	141.2	168.1	186.3	190.2	188.3
82.5°	95.7	124.1	139.3	143.1	141.2
85°	43.1	66.2	78.5	80.4	78.5
87.5°	12.8	27.5	33.4	34.0	30.9
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)