

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: P562532

Luminaire Tested: **SQ4-PC3-025U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562532
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

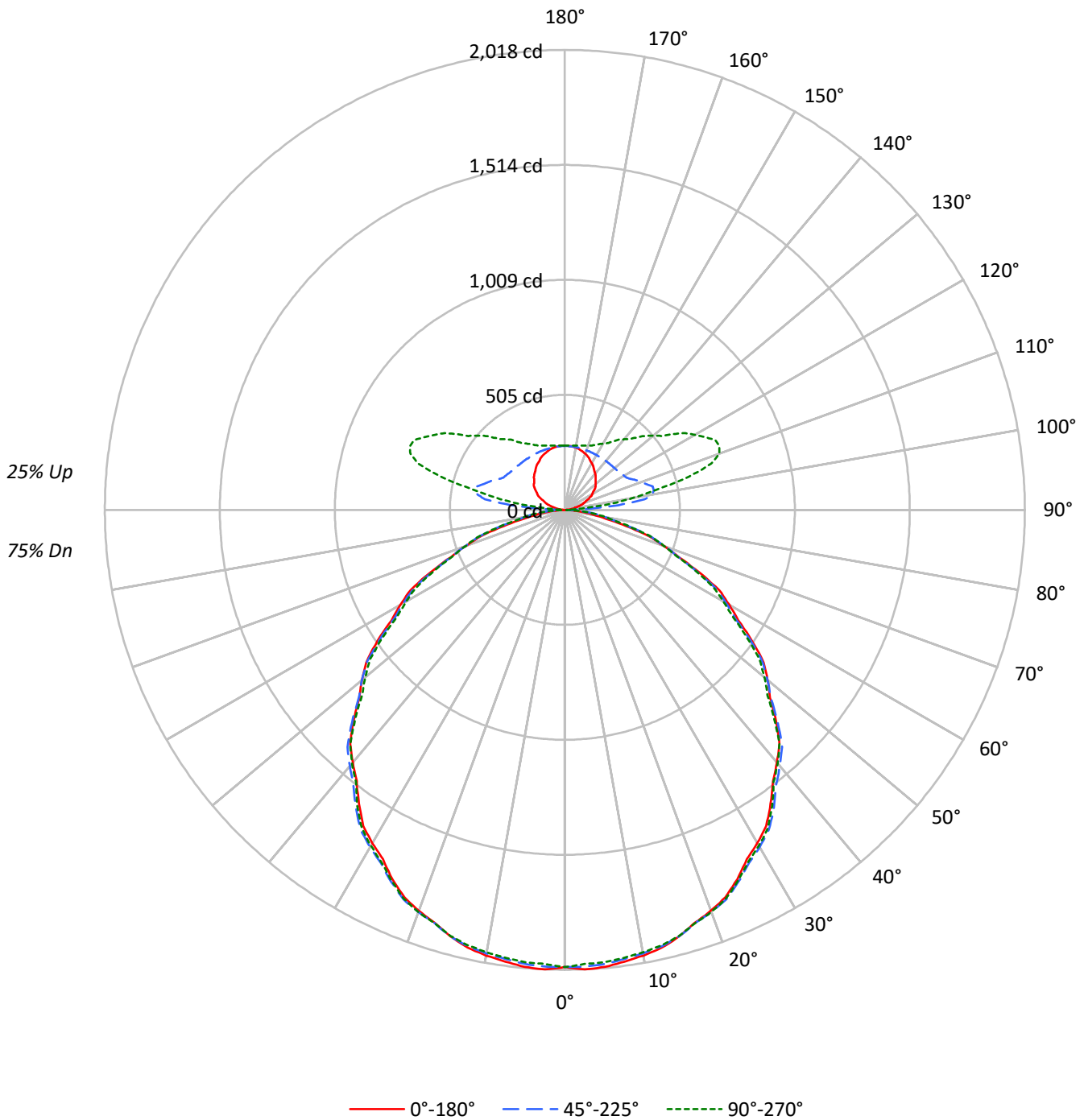
Lumens per Lamp: N/A
Luminaire Lumens: 7300.5 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.9
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9255	9255	9255
5°	9325	9265	9230
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9065
35°	8861	8997	8934
40°	8714	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7964	7844
60°	7678	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5529	5563
80°	3555	4689	4737
85°	2165	3933	3933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	2.6
10°-20°	544.9	7.5
20°-30°	825.2	11.3
30°-40°	989.3	13.6
40°-50°	1008.7	13.8
50°-60°	880.5	12.1
60°-70°	630.4	8.6
70°-80°	324.7	4.4
80°-90°	83.6	1.1
90°-100°	137.1	1.9
100°-110°	360.4	4.9
110°-120°	373.8	5.1
120°-130°	299.8	4.1
130°-140°	235.2	3.2
140°-150°	180.5	2.5
150°-160°	130.0	1.8
160°-170°	79.6	1.1
170°-180°	26.9	0.4
0°-30°	1559.9	21.4
0°-40°	2549.2	34.9
0°-60°	4438.4	60.8
0°-90°	5477.1	75.0
90°-120°	871.3	11.9
90°-150°	1586.9	21.7
90°-180°	1823.0	25.0
0°-180°	7300.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2014	1994	2001	1995	1993	191
15°	1938	1921	1938	1938	1936	546
25°	1789	1776	1802	1796	1796	823
35°	1574	1570	1598	1586	1586	984
45°	1312	1308	1321	1304	1300	1010
55°	1003	990	990	975	975	894
65°	650	636	637	632	632	643
75°	280	293	310	312	312	303
85°	41	63	74	76	74	56
90°	2	5	14	7	7	3
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	2018.2	2000.8	2006.3	2001.7	1994.4
5°	2013.7	1993.8	2000.7	1995.1	1993.3
7.5°	1999.3	1979.3	1988.5	1984.7	1982.9
10°	1985.9	1965.9	1976.6	1972.8	1971.0
12.5°	1968.0	1949.5	1961.7	1958.0	1957.6
15°	1937.6	1921.2	1937.6	1937.5	1935.7
17.5°	1899.3	1884.4	1901.9	1903.0	1901.9
20°	1872.6	1856.2	1878.1	1876.3	1878.1
22.5°	1839.9	1826.4	1849.9	1845.1	1846.9
25°	1789.0	1776.2	1802.0	1796.4	1796.4
27.5°	1728.8	1719.7	1747.7	1741.8	1741.8
30°	1688.6	1679.6	1709.1	1701.7	1701.7
32.5°	1644.1	1637.9	1666.0	1657.1	1657.1
35°	1573.5	1569.8	1597.6	1586.5	1586.5
37.5°	1500.6	1497.4	1522.6	1509.1	1504.7
40°	1447.1	1445.3	1467.6	1452.7	1452.7
42.5°	1393.6	1391.8	1411.1	1393.3	1393.3
45°	1311.5	1307.9	1320.8	1304.0	1300.4
47.5°	1222.0	1218.4	1226.5	1208.2	1206.4
50°	1161.1	1157.4	1161.1	1144.3	1142.5
52.5°	1098.6	1092.1	1092.7	1076.0	1075.6
55°	1003.2	990.4	990.2	975.3	975.3
57.5°	902.1	885.4	886.9	874.2	872.4
60°	832.2	814.1	815.5	804.3	802.5
62.5°	763.9	742.8	747.2	734.5	734.2
65°	650.2	635.7	637.2	631.6	631.6
67.5°	541.0	527.5	537.2	532.8	532.4
70°	460.7	451.6	464.4	464.4	462.6
72.5°	386.4	386.0	402.0	402.0	403.1
75°	280.5	293.2	310.2	312.1	312.1
77.5°	187.3	209.8	228.5	229.2	228.9
80°	133.8	159.2	176.5	180.2	178.3
82.5°	90.7	117.5	131.9	135.6	133.8
85°	40.9	62.7	74.3	76.1	74.3
87.5°	12.2	26.0	32.6	31.1	28.2
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)