

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: P562563

Luminaire Tested: **SQ4-PC3-025U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562563
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-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

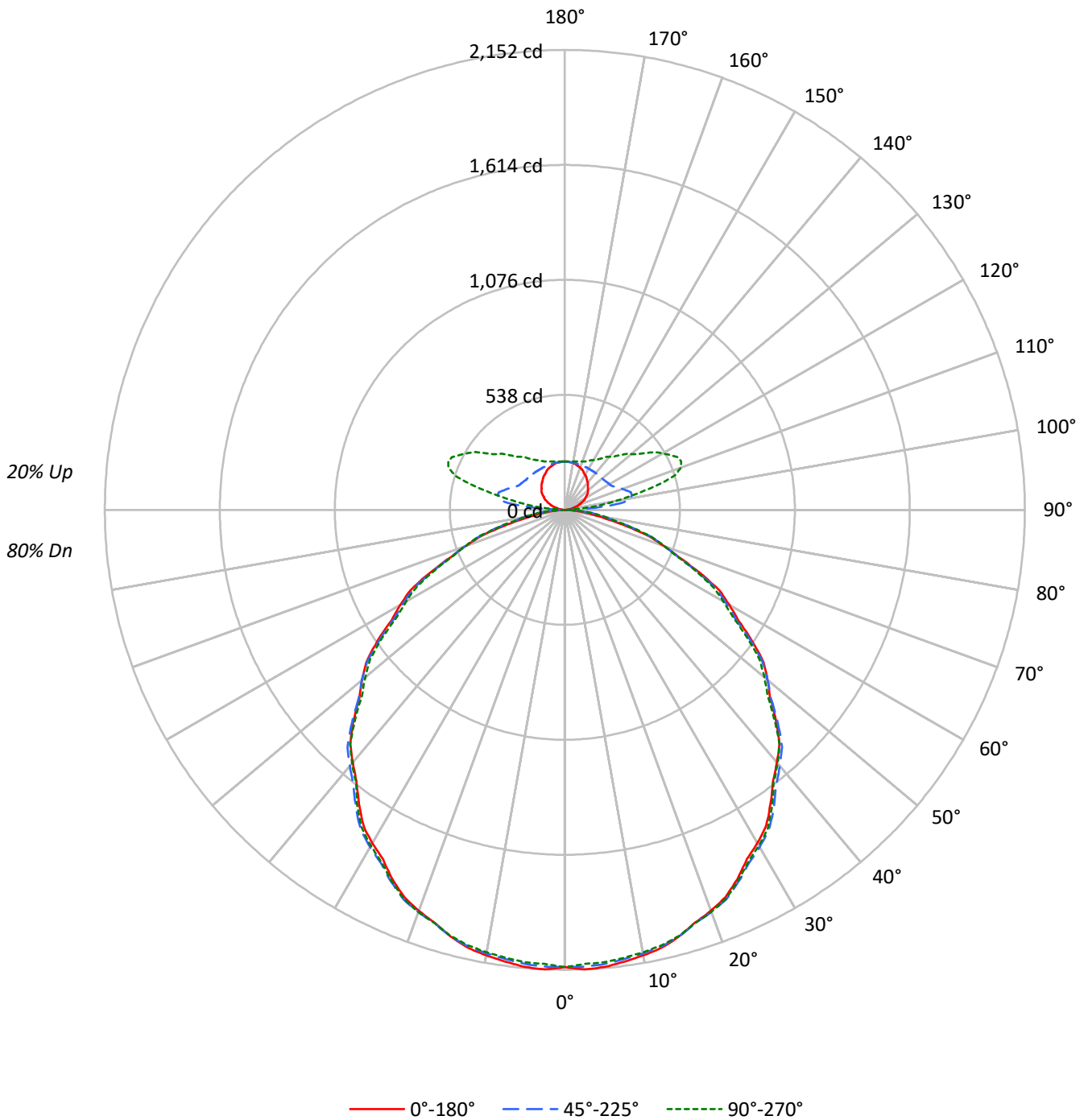
Lumens per Lamp: N/A
Luminaire Lumens: 7303.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13144
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11847	11847	11658
55°	11472	11323	11153
60°	10918	10699	10528
65°	10092	9889	9802
70°	8835	8907	8871
75°	7108	7861	7909
80°	5051	6666	6737
85°	3077	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	2.8
10°-20°	581.1	8.0
20°-30°	879.9	12.0
30°-40°	1054.9	14.4
40°-50°	1075.7	14.7
50°-60°	939.0	12.9
60°-70°	672.2	9.2
70°-80°	346.2	4.7
80°-90°	88.8	1.2
90°-100°	110.0	1.5
100°-110°	289.3	4.0
110°-120°	300.0	4.1
120°-130°	240.6	3.3
130°-140°	188.8	2.6
140°-150°	144.9	2.0
150°-160°	104.4	1.4
160°-170°	63.9	0.9
170°-180°	21.6	0.3
0°-30°	1663.5	22.8
0°-40°	2718.4	37.2
0°-60°	4733.1	64.8
0°-90°	5840.3	80.0
90°-120°	699.3	9.6
90°-150°	1273.6	17.4
90°-180°	1463.0	20.0
0°-180°	7303.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2147	2126	2134	2128	2126	204
15°	2066	2049	2066	2066	2064	583
25°	1908	1894	1922	1916	1916	878
35°	1678	1674	1704	1692	1692	1049
45°	1399	1395	1408	1391	1387	1077
55°	1070	1056	1056	1040	1040	954
65°	693	678	680	674	674	686
75°	299	313	331	333	333	323
85°	44	67	79	81	79	59
90°	1	4	12	6	6	3
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2152.2	2133.6	2139.5	2134.6	2126.8
5°	2147.4	2126.1	2133.6	2127.6	2125.6
7.5°	2132.0	2110.7	2120.5	2116.5	2114.5
10°	2117.7	2096.4	2107.8	2103.8	2101.9
12.5°	2098.7	2078.9	2092.0	2088.0	2087.6
15°	2066.2	2048.8	2066.2	2066.2	2064.2
17.5°	2025.4	2009.5	2028.2	2029.3	2028.2
20°	1996.9	1979.4	2002.8	2000.9	2002.8
22.5°	1962.0	1947.7	1972.7	1967.6	1969.5
25°	1907.7	1894.2	1921.6	1915.7	1915.7
27.5°	1843.5	1833.9	1863.7	1857.4	1857.4
30°	1800.8	1791.1	1822.5	1814.6	1814.6
32.5°	1753.2	1746.6	1776.6	1767.1	1767.1
35°	1677.9	1674.1	1703.7	1691.8	1691.8
37.5°	1600.3	1596.8	1623.6	1609.3	1604.6
40°	1543.2	1541.3	1565.0	1549.2	1549.2
42.5°	1486.2	1484.2	1504.8	1485.8	1485.8
45°	1398.6	1394.7	1408.5	1390.6	1386.7
47.5°	1303.1	1299.2	1307.9	1288.4	1286.5
50°	1238.1	1234.3	1238.1	1220.3	1218.3
52.5°	1171.6	1164.6	1165.2	1147.4	1147.0
55°	1069.8	1056.2	1055.9	1040.0	1040.0
57.5°	962.0	944.2	945.7	932.2	930.3
60°	887.5	868.1	869.7	857.7	855.8
62.5°	814.6	792.1	796.8	783.3	782.9
65°	693.4	677.9	679.5	673.5	673.5
67.5°	576.9	562.5	572.9	568.1	567.8
70°	491.3	481.6	495.3	495.2	493.3
72.5°	412.1	411.7	428.7	428.7	429.9
75°	299.1	312.7	330.8	332.8	332.8
77.5°	199.7	223.7	243.7	244.4	244.1
80°	142.6	169.8	188.2	192.1	190.2
82.5°	96.7	125.3	140.7	144.6	142.6
85°	43.6	66.8	79.2	81.2	79.2
87.5°	13.0	27.5	34.0	32.8	29.7
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)