

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: P563919

Luminaire Tested: **SQ4-PR1-025U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563919
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

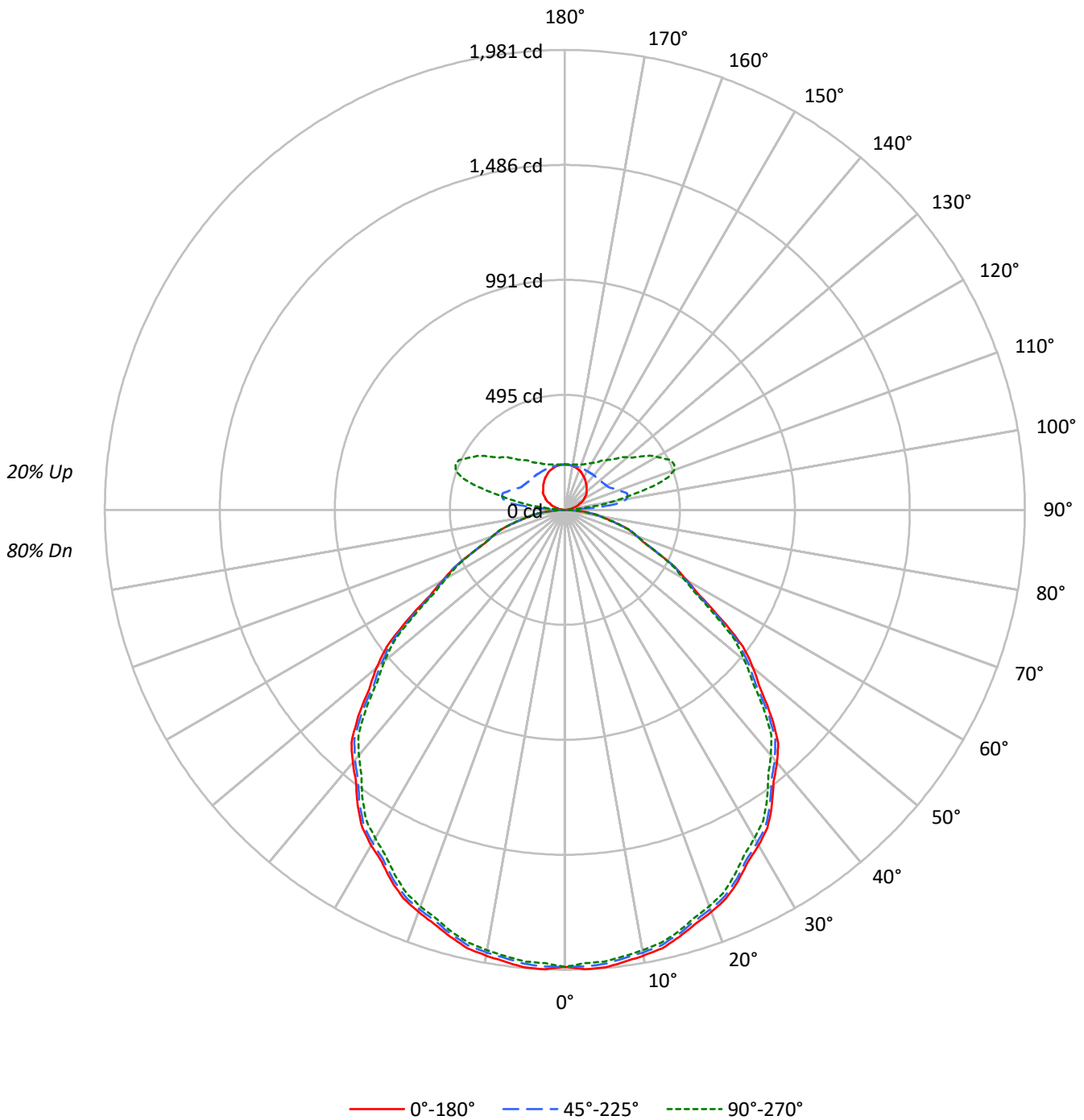
Lumens per Lamp: N/A
Luminaire Lumens: 6187.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	83	83	83	80
1	105	100	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	91	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	59	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	65	54	46	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	37	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12108	12108	12108
5°	12216	12123	12060
10°	12178	12094	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11850	11765	11597
35°	11675	11572	11407
40°	11408	11286	11081
45°	10944	10751	10530
50°	10124	9881	9686
55°	8836	8637	8454
60°	7446	7383	7237
65°	6440	6465	6415
70°	5915	5945	5945
75°	5682	5682	5723
80°	5345	5405	5345
85°	4305	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.0
10°-20°	532.6	8.6
20°-30°	803.3	13.0
30°-40°	957.1	15.5
40°-50°	943.7	15.3
50°-60°	721.2	11.7
60°-70°	446.3	7.2
70°-80°	253.5	4.1
80°-90°	78.2	1.3
90°-100°	95.1	1.5
100°-110°	250.1	4.0
110°-120°	259.3	4.2
120°-130°	208.0	3.4
130°-140°	163.2	2.6
140°-150°	125.3	2.0
150°-160°	90.2	1.5
160°-170°	55.2	0.9
170°-180°	18.6	0.3
0°-30°	1522.0	24.6
0°-40°	2479.2	40.1
0°-60°	4144.0	67.0
0°-90°	4922.0	79.6
90°-120°	604.6	9.8
90°-150°	1101.1	17.8
90°-180°	1265.0	20.4
0°-180°	6187.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1979	1957	1963	1956	1953	188
15°	1904	1884	1892	1885	1882	537
25°	1765	1744	1753	1734	1733	812
35°	1555	1536	1541	1521	1519	970
45°	1258	1242	1236	1214	1211	964
55°	824	811	805	792	788	738
65°	442	439	444	441	441	448
75°	239	239	239	241	241	252
85°	61	64	68	68	68	71
90°	1	4	10	5	5	4
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1968.5	1968.5	1968.5	1968.5	1968.5
2.5°	1980.7	1963.4	1968.5	1964.2	1954.9
5°	1978.6	1957.1	1963.4	1956.5	1953.2
7.5°	1963.4	1942.2	1948.5	1941.6	1939.6
10°	1949.8	1929.9	1936.3	1929.4	1926.1
12.5°	1934.9	1913.7	1921.3	1913.1	1909.8
15°	1904.0	1884.1	1892.2	1885.3	1882.0
17.5°	1870.1	1848.9	1856.9	1849.0	1844.7
20°	1843.0	1823.1	1831.1	1819.2	1817.6
22.5°	1813.2	1793.3	1801.3	1785.3	1785.0
25°	1765.0	1743.5	1753.1	1734.5	1732.8
27.5°	1707.7	1687.8	1695.8	1676.8	1674.8
30°	1668.4	1648.5	1656.5	1636.1	1632.8
32.5°	1623.6	1605.0	1611.7	1591.3	1589.4
35°	1554.8	1536.5	1541.2	1520.8	1519.2
37.5°	1476.4	1459.9	1462.5	1440.1	1438.5
40°	1420.8	1404.2	1405.6	1381.8	1380.1
42.5°	1359.8	1343.2	1341.8	1318.0	1316.4
45°	1258.1	1241.5	1236.0	1213.9	1210.6
47.5°	1142.1	1125.5	1115.3	1097.3	1094.9
50°	1058.0	1041.4	1032.6	1017.2	1012.2
52.5°	967.1	950.5	943.0	929.0	924.0
55°	824.0	810.7	805.4	791.7	788.4
57.5°	688.0	679.1	677.5	664.3	662.9
60°	605.3	600.3	600.2	588.3	588.3
62.5°	534.8	531.1	533.7	525.9	524.6
65°	442.5	439.2	444.2	440.8	440.8
67.5°	369.6	369.6	372.7	371.3	371.3
70°	328.9	328.9	330.6	330.6	330.6
72.5°	292.3	291.0	295.4	295.3	294.0
75°	239.1	239.1	239.1	240.8	240.8
77.5°	186.2	186.5	187.9	187.5	186.2
80°	150.9	152.6	152.6	150.9	150.9
82.5°	115.6	117.3	117.3	117.0	115.6
85°	61.0	64.4	67.8	67.8	67.8
87.5°	17.9	23.7	29.1	28.1	26.8
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)