

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: P563903

Luminaire Tested: **SQ4-PR1-025U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563903
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

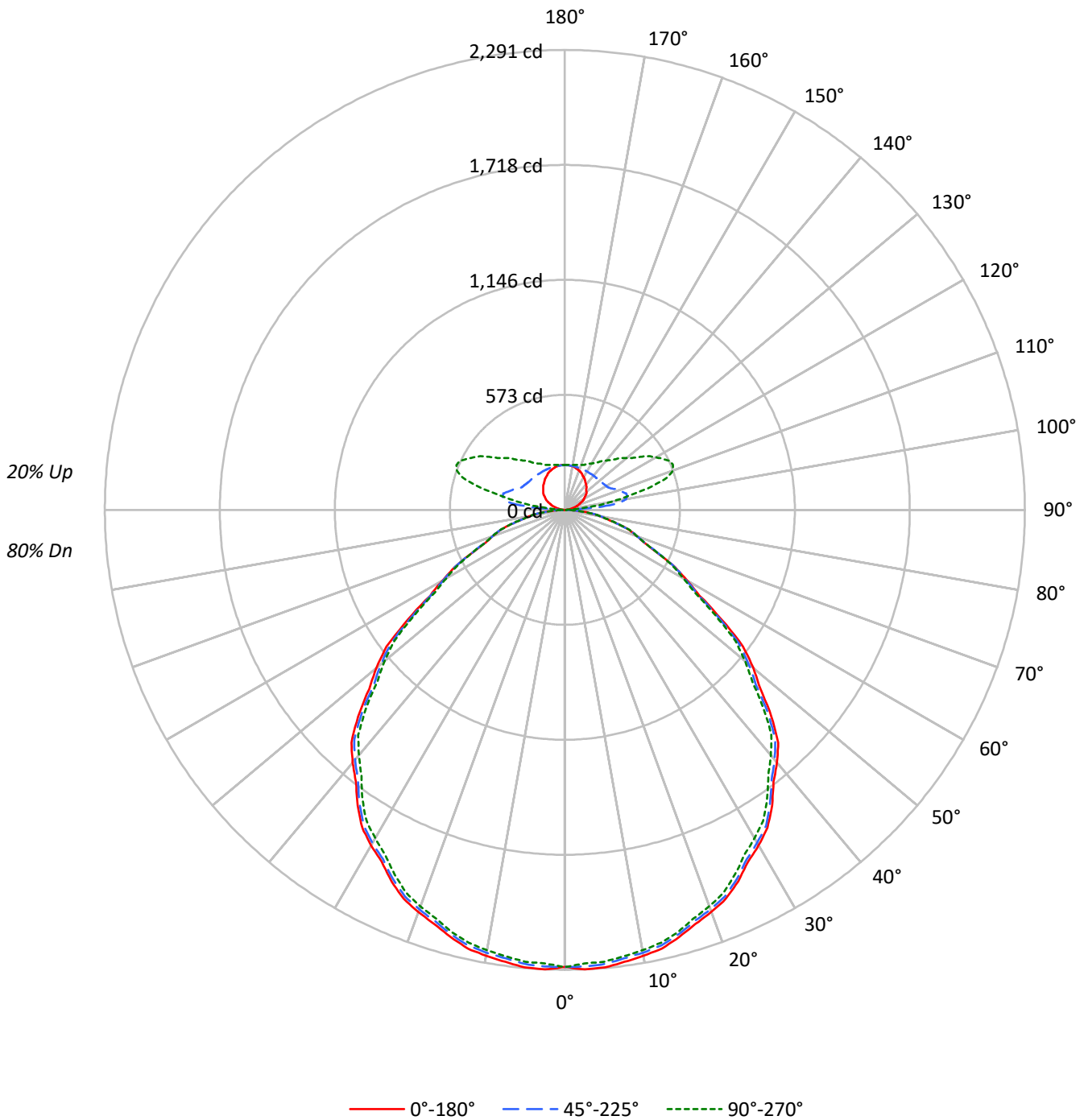
Lumens per Lamp: N/A
Luminaire Lumens: 7142.5 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	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	60	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	66	54	47	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	38	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°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13603
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11710	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7421
70°	6843	6879	6879
75°	6571	6571	6619
80°	6185	6252	6185
85°	4982	5540	5540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	3.0
10°-20°	616.1	8.6
20°-30°	929.2	13.0
30°-40°	1107.2	15.5
40°-50°	1091.6	15.3
50°-60°	834.2	11.7
60°-70°	516.3	7.2
70°-80°	293.2	4.1
80°-90°	90.4	1.3
90°-100°	108.9	1.5
100°-110°	286.4	4.0
110°-120°	297.0	4.2
120°-130°	238.2	3.3
130°-140°	186.9	2.6
140°-150°	143.5	2.0
150°-160°	103.3	1.4
160°-170°	63.2	0.9
170°-180°	21.4	0.3
0°-30°	1760.7	24.7
0°-40°	2867.9	40.2
0°-60°	4793.7	67.1
0°-90°	5693.6	79.7
90°-120°	692.3	9.7
90°-150°	1261.0	17.7
90°-180°	1449.0	20.3
0°-180°	7142.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2277	2277	2277	2277	2277	
5°	2289	2264	2271	2263	2259	217
15°	2202	2180	2189	2181	2177	622
25°	2042	2017	2028	2006	2004	940
35°	1798	1777	1783	1759	1757	1122
45°	1455	1436	1430	1404	1400	1115
55°	953	938	932	916	912	854
65°	512	508	514	510	510	519
75°	276	276	276	278	278	292
85°	71	74	78	78	78	82
90°	1	4	12	6	6	4
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2277.1	2277.1	2277.1	2277.1	2277.1
2.5°	2291.2	2271.2	2277.1	2272.1	2261.4
5°	2288.8	2263.9	2271.2	2263.2	2259.4
7.5°	2271.2	2246.6	2253.9	2246.0	2243.7
10°	2255.5	2232.5	2239.8	2231.9	2228.0
12.5°	2238.2	2213.7	2222.5	2213.0	2209.2
15°	2202.5	2179.5	2188.8	2180.9	2177.0
17.5°	2163.3	2138.8	2148.0	2138.9	2133.9
20°	2131.9	2108.9	2118.2	2104.4	2102.5
22.5°	2097.4	2074.4	2083.7	2065.2	2064.8
25°	2041.7	2016.8	2028.0	2006.4	2004.4
27.5°	1975.4	1952.4	1961.7	1939.7	1937.4
30°	1929.9	1906.9	1916.2	1892.6	1888.7
32.5°	1878.1	1856.6	1864.4	1840.8	1838.5
35°	1798.5	1777.4	1782.8	1759.2	1757.3
37.5°	1707.9	1688.7	1691.8	1665.9	1664.0
40°	1643.6	1624.4	1625.9	1598.4	1596.5
42.5°	1573.0	1553.8	1552.2	1524.7	1522.7
45°	1455.3	1436.1	1429.8	1404.2	1400.4
47.5°	1321.1	1301.9	1290.1	1269.3	1266.6
50°	1223.8	1204.7	1194.4	1176.6	1170.9
52.5°	1118.7	1099.5	1090.9	1074.7	1068.9
55°	953.2	937.8	931.6	915.8	912.0
57.5°	795.9	785.5	783.7	768.4	766.9
60°	700.2	694.4	694.3	680.6	680.6
62.5°	618.6	614.4	617.4	608.4	606.8
65°	511.9	508.1	513.9	509.9	509.9
67.5°	427.6	427.6	431.1	429.5	429.5
70°	380.5	380.5	382.5	382.5	382.5
72.5°	338.1	336.6	341.7	341.6	340.1
75°	276.5	276.5	276.5	278.5	278.5
77.5°	215.3	215.7	217.3	216.9	215.3
80°	174.6	176.5	176.5	174.6	174.6
82.5°	133.8	135.7	135.7	135.3	133.8
85°	70.6	74.4	78.5	78.5	78.5
87.5°	20.7	27.4	33.7	32.5	31.0
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)