

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: P564748

Luminaire Tested: **SQ4-PW1-075U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564748
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

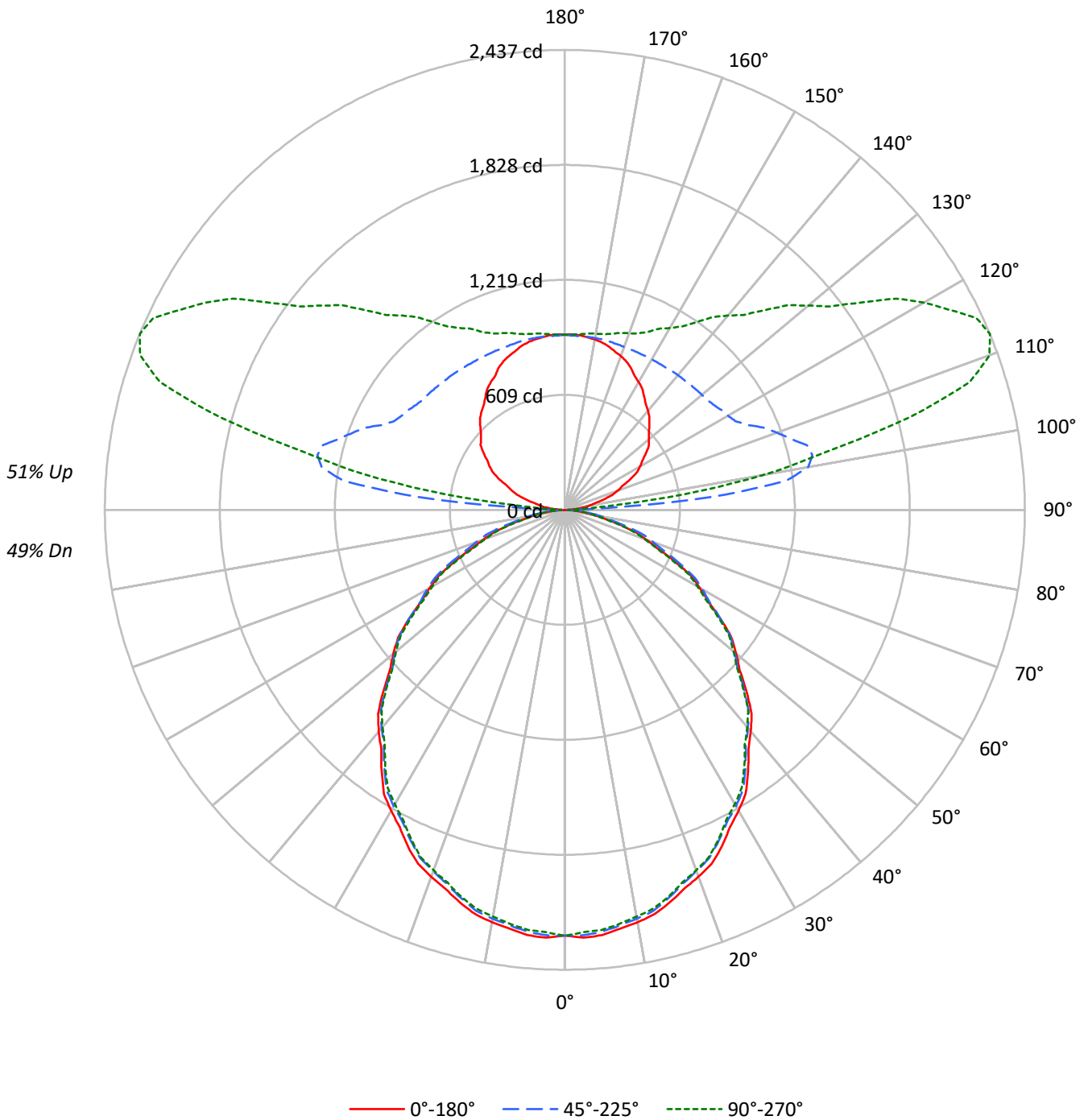
Lumens per Lamp: N/A
Luminaire Lumens: 11790.8 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29				
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25				
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22				
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17				
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15				
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10409	10409	10409
5°	10476	10393	10347
10°	10392	10308	10252
15°	10282	10168	10130
20°	10159	10003	9984
25°	10018	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9050
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7612	7758	7483
65°	6965	7312	6792
70°	6140	6730	5979
75°	5244	6023	5103
80°	4067	5069	4120
85°	2631	3896	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	1.8
10°-20°	599.8	5.1
20°-30°	889.8	7.5
30°-40°	1041.1	8.8
40°-50°	1036.5	8.8
50°-60°	895.0	7.6
60°-70°	644.3	5.5
70°-80°	337.9	2.9
80°-90°	86.1	0.7
90°-100°	437.9	3.7
100°-110°	1204.6	10.2
110°-120°	1243.4	10.5
120°-130°	996.2	8.4
130°-140°	782.5	6.6
140°-150°	599.6	5.1
150°-160°	431.1	3.7
160°-170°	263.6	2.2
170°-180°	88.9	0.8
0°-30°	1702.1	14.4
0°-40°	2743.2	23.3
0°-60°	4674.7	39.6
0°-90°	5743.0	48.7
90°-120°	2885.9	24.5
90°-150°	5264.2	44.6
90°-180°	6048.0	51.3
0°-180°	11790.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2262	2237	2244	2238	2234	214
15°	2153	2126	2129	2125	2121	607
25°	1968	1935	1932	1920	1926	905
35°	1692	1668	1668	1652	1658	1058
45°	1360	1348	1342	1338	1336	1049
55°	1008	1006	1008	994	992	899
65°	638	658	670	644	622	632
75°	294	321	338	315	286	315
85°	50	65	74	70	66	66
90°	2	8	14	18	18	6
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2256.3	2256.3	2256.3	2256.3	2256.3
2.5°	2269.0	2250.4	2256.3	2251.3	2240.4
5°	2262.3	2237.0	2244.4	2238.3	2234.4
7.5°	2239.2	2215.9	2221.3	2214.9	2212.6
10°	2218.5	2195.2	2200.6	2192.6	2188.7
12.5°	2194.7	2169.8	2175.2	2167.2	2164.9
15°	2152.9	2125.7	2129.1	2125.0	2121.1
17.5°	2104.4	2076.8	2077.4	2071.0	2070.2
20°	2069.4	2040.3	2037.6	2029.8	2033.7
22.5°	2031.3	2000.6	1997.9	1986.9	1992.3
25°	1968.1	1935.0	1932.3	1920.5	1926.3
27.5°	1894.9	1862.2	1862.3	1845.7	1852.0
30°	1840.8	1809.7	1813.0	1793.3	1801.1
32.5°	1783.6	1755.6	1757.3	1737.6	1745.4
35°	1691.7	1668.4	1667.9	1652.1	1657.9
37.5°	1597.9	1577.3	1574.0	1564.9	1566.5
40°	1532.7	1515.2	1508.8	1502.9	1502.9
42.5°	1464.3	1448.4	1442.0	1437.6	1436.1
45°	1359.7	1348.1	1341.9	1337.8	1335.9
47.5°	1256.4	1245.5	1240.1	1237.2	1235.3
50°	1184.8	1177.0	1174.9	1168.9	1166.9
52.5°	1113.2	1108.6	1106.5	1098.9	1096.9
55°	1007.9	1005.9	1007.9	993.9	992.0
57.5°	898.1	901.3	907.7	888.9	884.2
60°	825.0	832.8	840.9	818.9	811.1
62.5°	750.2	762.7	774.1	748.8	737.9
65°	638.1	657.6	669.9	643.6	622.2
67.5°	530.0	554.1	568.9	540.6	516.5
70°	455.2	482.4	499.0	470.5	443.3
72.5°	390.0	420.4	433.8	406.9	379.7
75°	294.2	321.4	337.9	315.4	286.3
77.5°	208.7	234.4	248.1	228.5	204.4
80°	153.1	180.3	190.8	174.5	155.1
82.5°	108.5	131.1	138.4	128.5	115.3
85°	49.7	65.2	73.6	69.5	65.6
87.5°	13.1	25.2	33.0	33.8	35.4
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)