

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: P564076

Luminaire Tested: **SQ4-PR1-075U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564076
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

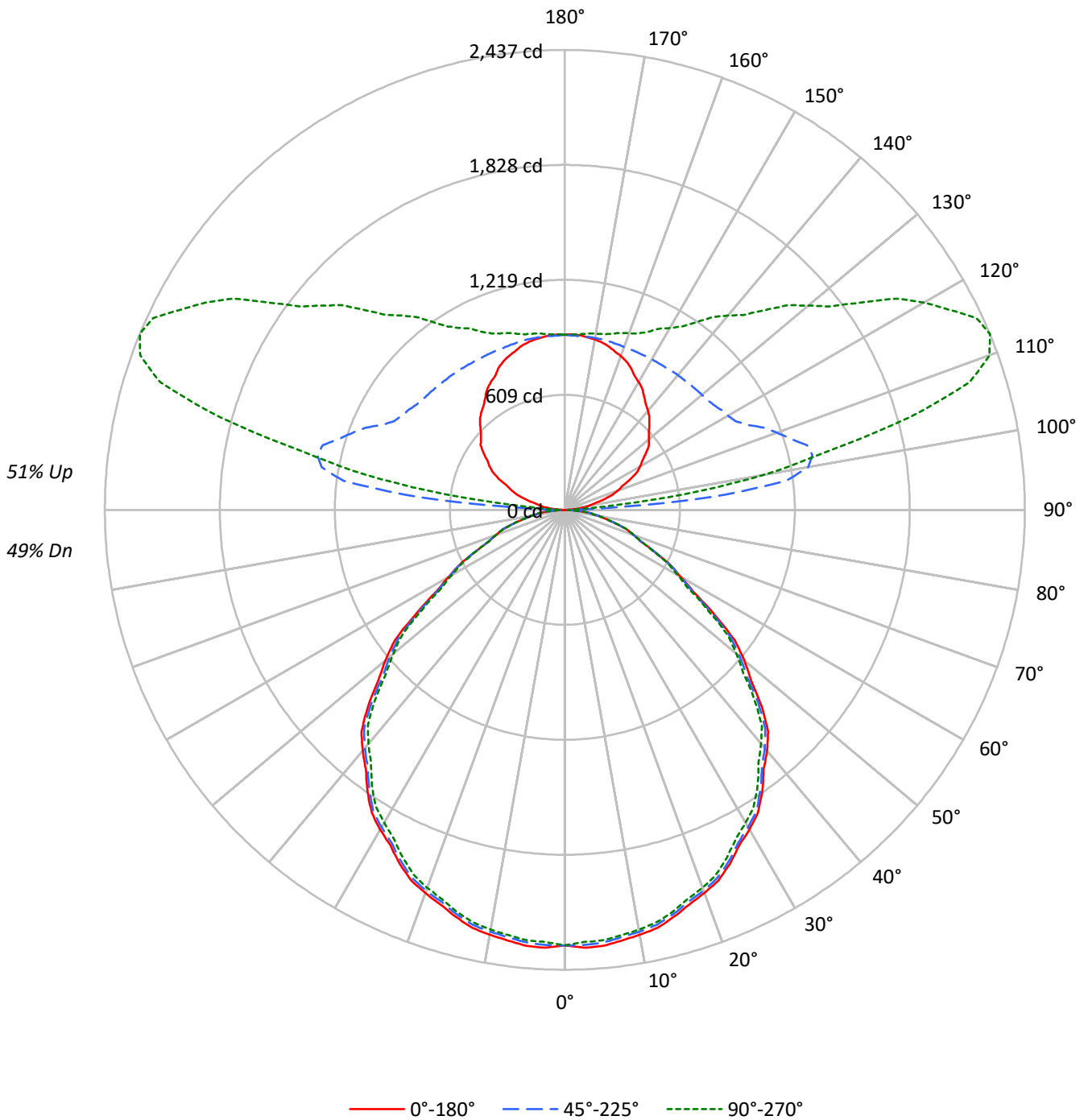
Lumens per Lamp: N/A
Luminaire Lumens: 11819.9 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10634	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10533	10462	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10032	9924	9745
45°	9623	9454	9260
50°	8903	8688	8517
55°	7770	7595	7435
60°	6548	6492	6364
65°	5663	5685	5642
70°	5202	5228	5228
75°	4996	4996	5032
80°	4699	4753	4699
85°	3790	4208	4208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.8
10°-20°	624.4	5.3
20°-30°	941.9	8.0
30°-40°	1122.2	9.5
40°-50°	1106.4	9.4
50°-60°	845.6	7.2
60°-70°	523.3	4.4
70°-80°	297.2	2.5
80°-90°	92.8	0.8
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	3.6
160°-170°	263.6	2.2
170°-180°	88.9	0.8
0°-30°	1784.6	15.1
0°-40°	2906.8	24.6
0°-60°	4858.8	41.1
0°-90°	5772.1	48.8
90°-120°	2885.9	24.4
90°-150°	5264.2	44.5
90°-180°	6048.0	51.2
0°-180°	11819.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2320	2295	2302	2294	2290	220
15°	2232	2209	2218	2210	2207	630
25°	2069	2044	2056	2034	2032	952
35°	1823	1802	1807	1783	1781	1138
45°	1475	1456	1449	1423	1419	1130
55°	966	951	944	928	924	866
65°	519	515	521	517	517	526
75°	280	280	280	282	282	296
85°	72	76	80	80	80	83
90°	2	8	14	18	18	7
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°	2308.0	2308.0	2308.0	2308.0	2308.0
2.5°	2322.3	2302.1	2308.0	2303.0	2292.1
5°	2319.9	2294.6	2302.0	2294.0	2290.1
7.5°	2302.0	2277.1	2284.5	2276.5	2274.2
10°	2286.1	2262.8	2270.2	2262.2	2258.3
12.5°	2268.6	2243.7	2252.7	2243.1	2239.2
15°	2232.4	2209.1	2218.5	2210.5	2206.6
17.5°	2192.7	2167.8	2177.2	2167.9	2162.9
20°	2160.9	2137.5	2147.0	2133.0	2131.1
22.5°	2125.9	2102.6	2112.0	2093.3	2092.9
25°	2069.4	2044.2	2055.5	2033.6	2031.7
27.5°	2002.2	1978.9	1988.3	1966.0	1963.7
30°	1956.1	1932.8	1942.2	1918.3	1914.4
32.5°	1903.6	1881.9	1889.7	1865.8	1863.5
35°	1822.9	1801.5	1807.0	1783.1	1781.2
37.5°	1731.1	1711.6	1714.8	1688.5	1686.6
40°	1665.9	1646.4	1648.0	1620.1	1618.2
42.5°	1594.3	1574.9	1573.2	1545.4	1543.4
45°	1475.0	1455.6	1449.2	1423.3	1419.4
47.5°	1339.1	1319.6	1307.7	1286.5	1283.8
50°	1240.5	1221.0	1210.6	1192.6	1186.8
52.5°	1133.9	1114.5	1105.7	1089.3	1083.4
55°	966.1	950.6	944.3	928.3	924.4
57.5°	806.7	796.2	794.4	778.8	777.3
60°	709.7	703.9	703.7	689.8	689.8
62.5°	627.0	622.7	625.8	616.6	615.1
65°	518.8	515.0	520.8	516.9	516.9
67.5°	433.4	433.4	436.9	435.4	435.4
70°	385.7	385.7	387.6	387.6	387.6
72.5°	342.7	341.2	346.3	346.3	344.7
75°	280.3	280.3	280.3	282.3	282.3
77.5°	218.3	218.7	220.3	219.8	218.3
80°	176.9	178.9	178.9	176.9	176.9
82.5°	135.6	137.5	137.6	137.1	135.6
85°	71.6	75.5	79.5	79.5	79.5
87.5°	21.1	28.4	34.6	35.3	33.8
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)