

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: P563331

Luminaire Tested: **SQ4-PP3-050U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563331
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

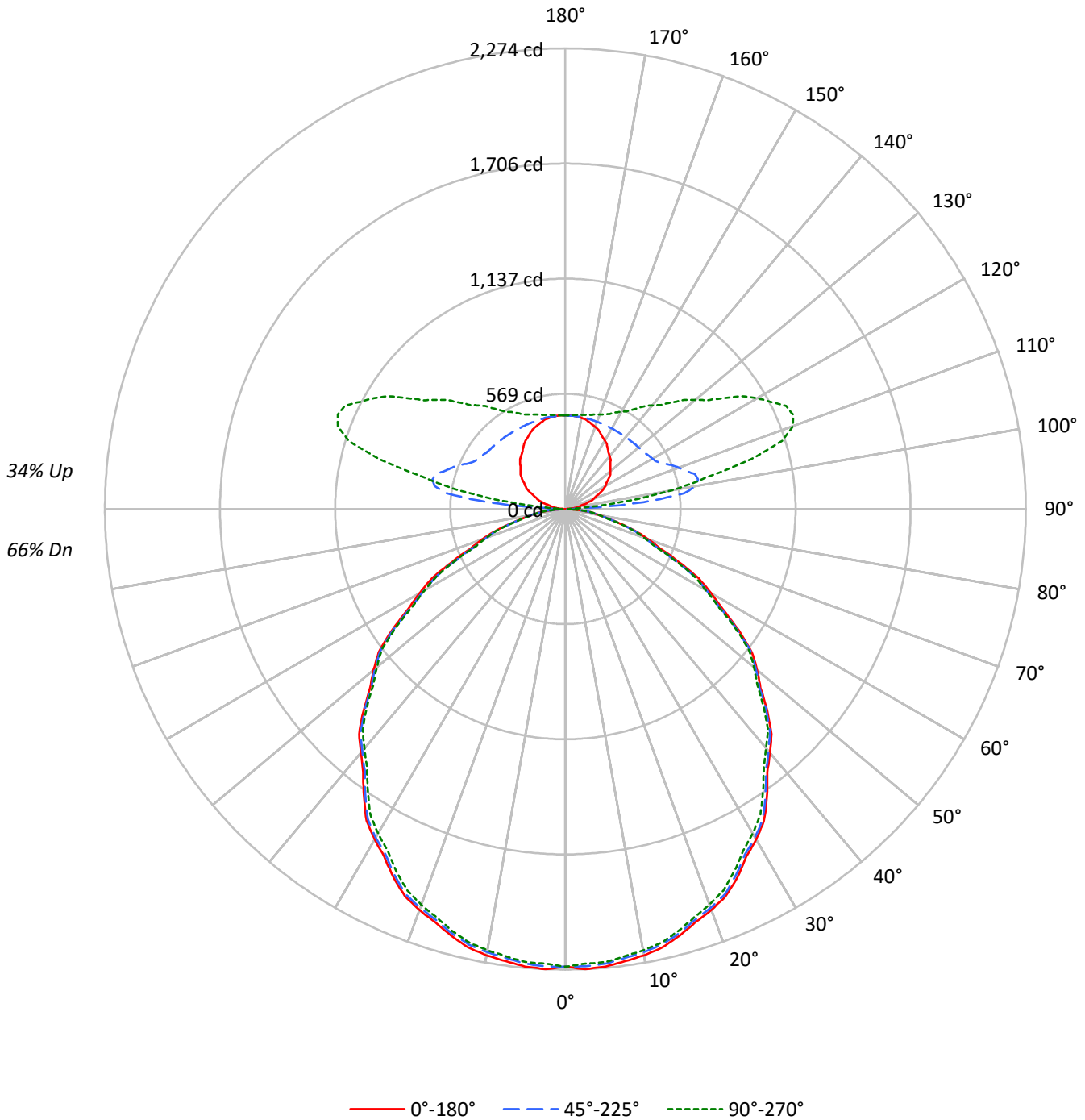
Lumens per Lamp: N/A
Luminaire Lumens: 8803.6 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13028	12938	12775
40°	12611	12531	12388
45°	12267	12181	12060
50°	11826	11750	11637
55°	11214	11066	10980
60°	10209	9916	9867
65°	8993	8619	8590
70°	7765	7443	7443
75°	6683	6590	6495
80°	5894	5961	5823
85°	4615	5032	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	2.4
10°-20°	610.1	6.9
20°-30°	913.9	10.4
30°-40°	1072.0	12.2
40°-50°	1075.3	12.2
50°-60°	917.4	10.4
60°-70°	598.3	6.8
70°-80°	300.1	3.4
80°-90°	84.8	1.0
90°-100°	221.9	2.5
100°-110°	602.8	6.8
110°-120°	619.7	7.0
120°-130°	495.5	5.6
130°-140°	389.3	4.4
140°-150°	298.5	3.4
150°-160°	214.7	2.4
160°-170°	131.3	1.5
170°-180°	44.2	0.5
0°-30°	1737.7	19.7
0°-40°	2809.7	31.9
0°-60°	4802.4	54.6
0°-90°	5785.7	65.7
90°-120°	1444.4	16.4
90°-150°	2627.7	29.8
90°-180°	3018.0	34.3
0°-180°	8803.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2268	2246	2254	2246	2246	215
15°	2181	2159	2169	2161	2157	615
25°	2008	1985	1994	1977	1975	923
35°	1735	1718	1723	1703	1701	1084
45°	1410	1400	1400	1386	1386	1086
55°	1046	1042	1032	1026	1024	929
65°	618	606	592	588	590	617
75°	281	281	277	275	273	305
85°	65	71	71	71	71	77
90°	2	6	10	13	13	5
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259.8	2259.8	2259.8	2259.8	2259.8
2.5°	2274.1	2255.5	2259.8	2256.4	2247.1
5°	2267.7	2246.4	2253.9	2246.0	2246.0
7.5°	2252.3	2229.0	2236.4	2228.5	2228.1
10°	2238.0	2214.8	2222.2	2214.2	2212.3
12.5°	2217.4	2194.2	2203.2	2193.7	2193.3
15°	2180.6	2159.3	2168.7	2160.7	2156.8
17.5°	2139.0	2115.8	2127.1	2116.0	2114.4
20°	2107.3	2084.1	2095.4	2079.6	2079.6
22.5°	2069.3	2046.0	2059.0	2038.4	2038.4
25°	2008.3	1985.0	1994.4	1976.6	1974.6
27.5°	1935.8	1912.9	1922.7	1902.5	1902.1
30°	1883.5	1862.2	1873.6	1851.8	1849.8
32.5°	1826.5	1806.7	1815.0	1793.2	1791.2
35°	1735.0	1717.5	1723.1	1703.2	1701.3
37.5°	1638.7	1620.9	1627.2	1610.2	1609.4
40°	1570.6	1559.0	1560.7	1546.7	1542.9
42.5°	1507.2	1494.0	1495.7	1481.8	1481.1
45°	1410.2	1400.5	1400.3	1386.4	1386.4
47.5°	1307.2	1299.8	1297.7	1286.2	1285.8
50°	1235.9	1230.1	1227.9	1218.0	1216.1
52.5°	1161.4	1158.7	1151.9	1143.6	1143.2
55°	1045.7	1041.9	1031.9	1025.9	1023.9
57.5°	920.2	912.4	901.2	892.5	894.0
60°	829.9	822.1	806.1	802.1	802.1
62.5°	742.7	733.4	717.4	711.9	715.0
65°	617.9	606.3	592.2	588.3	590.2
67.5°	504.6	494.2	478.9	478.9	477.3
70°	431.8	426.0	413.9	413.9	413.9
72.5°	366.8	364.1	355.3	355.3	353.7
75°	281.2	281.2	277.3	275.3	273.3
77.5°	210.7	211.5	209.5	207.5	204.0
80°	166.4	170.2	168.3	166.3	164.4
82.5°	125.2	129.0	128.7	125.2	124.8
85°	65.4	71.2	71.3	71.3	71.3
87.5°	17.7	24.8	27.4	28.1	29.6
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)