

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: P563308

Luminaire Tested: **SQ4-PP3-050U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563308
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-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

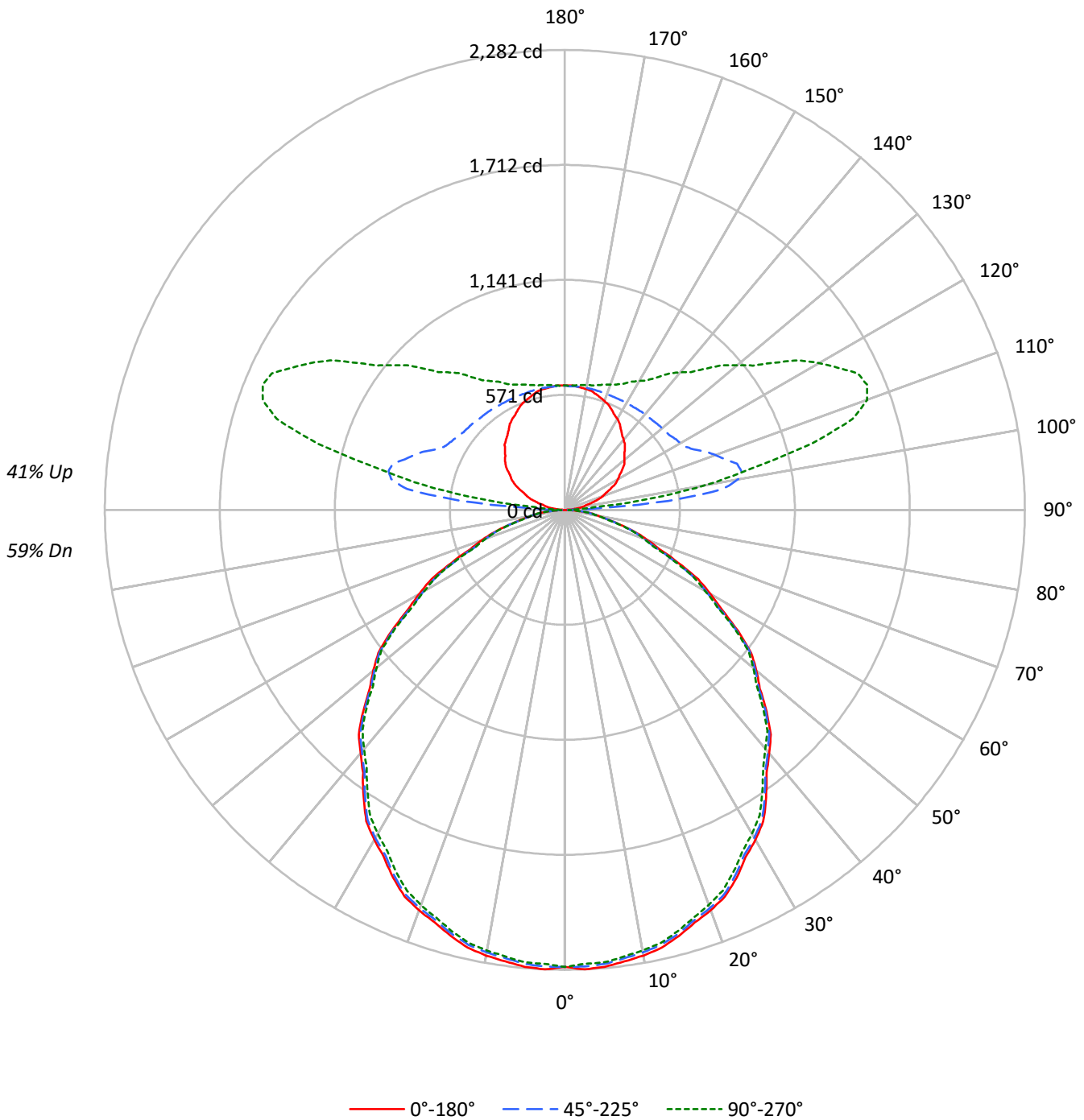
Lumens per Lamp: N/A
Luminaire Lumens: 9830.3 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.1
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10445	10399
15°	10450	10394	10336
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9738	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6769	6486	6465
70°	5844	5603	5603
75°	5030	4959	4889
80°	4434	4487	4383
85°	3472	3784	3784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	2.2
10°-20°	612.3	6.2
20°-30°	917.1	9.3
30°-40°	1075.7	10.9
40°-50°	1079.1	11.0
50°-60°	920.5	9.4
60°-70°	600.4	6.1
70°-80°	301.2	3.1
80°-90°	85.7	0.9
90°-100°	295.8	3.0
100°-110°	803.7	8.2
110°-120°	826.3	8.4
120°-130°	660.7	6.7
130°-140°	519.1	5.3
140°-150°	398.0	4.0
150°-160°	286.2	2.9
160°-170°	175.1	1.8
170°-180°	59.0	0.6
0°-30°	1743.8	17.7
0°-40°	2819.5	28.7
0°-60°	4819.1	49.0
0°-90°	5806.4	59.1
90°-120°	1925.8	19.6
90°-150°	3503.7	35.6
90°-180°	4024.0	40.9
0°-180°	9830.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2276	2254	2262	2254	2254	216
15°	2188	2167	2176	2168	2164	617
25°	2015	1992	2001	1983	1982	927
35°	1741	1724	1729	1709	1707	1088
45°	1415	1405	1405	1391	1391	1090
55°	1049	1046	1036	1030	1028	933
65°	620	608	594	590	592	619
75°	282	282	278	276	274	306
85°	66	71	72	72	72	77
90°	2	8	14	18	18	5
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2267.7	2267.7	2267.7	2267.7	2267.7
2.5°	2282.0	2263.3	2267.7	2264.3	2255.0
5°	2275.6	2254.3	2261.7	2253.8	2253.8
7.5°	2260.1	2236.8	2244.2	2236.3	2235.9
10°	2245.8	2222.5	2229.9	2221.9	2220.0
12.5°	2225.2	2201.8	2210.8	2201.3	2200.9
15°	2188.2	2166.8	2176.3	2168.2	2164.3
17.5°	2146.5	2123.1	2134.5	2123.4	2121.8
20°	2114.7	2091.3	2102.7	2086.8	2086.8
22.5°	2076.5	2053.2	2066.2	2045.5	2045.5
25°	2015.3	1992.0	2001.4	1983.4	1981.5
27.5°	1942.5	1919.6	1929.4	1909.1	1908.8
30°	1890.1	1868.7	1880.1	1858.2	1856.3
32.5°	1832.8	1813.0	1821.3	1799.4	1797.5
35°	1741.0	1723.5	1729.1	1709.2	1707.2
37.5°	1644.4	1626.5	1632.9	1615.8	1615.0
40°	1576.1	1564.4	1566.1	1552.1	1548.2
42.5°	1512.5	1499.2	1500.9	1487.0	1486.2
45°	1415.1	1405.4	1405.1	1391.2	1391.2
47.5°	1311.7	1304.3	1302.2	1290.6	1290.3
50°	1240.2	1234.3	1232.2	1222.2	1220.3
52.5°	1165.4	1162.7	1155.9	1147.5	1147.2
55°	1049.4	1045.5	1035.5	1029.5	1027.5
57.5°	923.4	915.6	904.3	895.6	897.1
60°	832.7	825.0	808.9	804.9	804.9
62.5°	745.3	736.0	719.9	714.4	717.5
65°	620.1	608.4	594.2	590.3	592.3
67.5°	506.4	495.9	480.6	480.5	479.0
70°	433.3	427.4	415.4	415.4	415.4
72.5°	368.1	365.4	356.5	356.5	355.0
75°	282.2	282.2	278.2	276.2	274.3
77.5°	211.5	212.2	210.3	208.2	204.7
80°	166.9	170.8	168.9	166.9	165.0
82.5°	125.6	129.5	129.2	125.6	125.2
85°	65.6	71.4	71.5	71.5	71.5
87.5°	17.9	25.3	28.2	29.0	30.6
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)