

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: P563419

Luminaire Tested: **SQ4-PP3-075U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563419
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

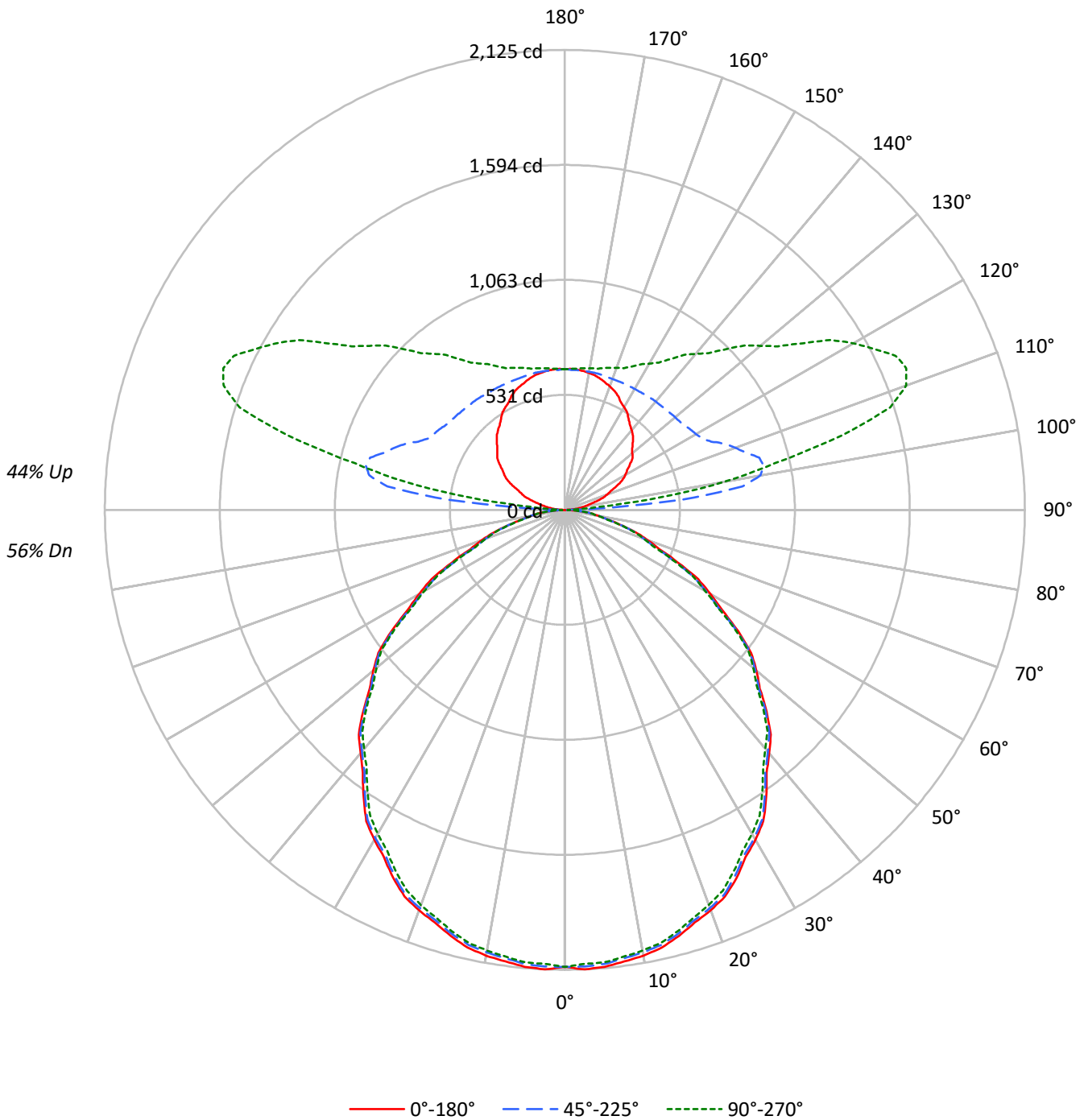
Lumens per Lamp: N/A
Luminaire Lumens: 9645.3 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13062	12970	12912
15°	12976	12905	12834
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12278
35°	12174	12091	11937
40°	11785	11710	11577
45°	11463	11382	11270
50°	11051	10980	10874
55°	10479	10341	10261
60°	9540	9267	9221
65°	8405	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5508	5572	5441
85°	4312	4700	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	2.1
10°-20°	570.2	5.9
20°-30°	854.1	8.9
30°-40°	1001.8	10.4
40°-50°	1004.9	10.4
50°-60°	857.2	8.9
60°-70°	559.1	5.8
70°-80°	280.5	2.9
80°-90°	79.3	0.8
90°-100°	306.9	3.2
100°-110°	844.3	8.8
110°-120°	871.5	9.0
120°-130°	698.2	7.2
130°-140°	548.4	5.7
140°-150°	420.3	4.4
150°-160°	302.2	3.1
160°-170°	184.8	1.9
170°-180°	62.3	0.6
0°-30°	1623.9	16.8
0°-40°	2625.7	27.2
0°-60°	4487.8	46.5
0°-90°	5406.6	56.1
90°-120°	2022.6	21.0
90°-150°	3689.5	38.3
90°-180°	4239.0	43.9
0°-180°	9645.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2119	2099	2106	2099	2099	201
15°	2038	2018	2027	2019	2016	575
25°	1877	1855	1864	1847	1845	863
35°	1621	1605	1610	1592	1590	1013
45°	1318	1309	1308	1296	1296	1015
55°	977	974	964	959	957	868
65°	578	567	553	550	552	576
75°	263	263	259	257	255	285
85°	61	66	67	67	67	72
90°	1	5	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2125.1	2107.7	2111.8	2108.6	2099.9
5°	2119.2	2099.3	2106.2	2098.8	2098.8
7.5°	2104.7	2083.0	2089.9	2082.5	2082.2
10°	2091.4	2069.7	2076.6	2069.2	2067.4
12.5°	2072.2	2050.4	2058.8	2049.9	2049.6
15°	2037.7	2017.8	2026.6	2019.1	2015.5
17.5°	1998.9	1977.2	1987.8	1977.4	1975.9
20°	1969.3	1947.5	1958.2	1943.3	1943.3
22.5°	1933.7	1912.0	1924.1	1904.9	1904.9
25°	1876.7	1855.0	1863.8	1847.1	1845.3
27.5°	1809.0	1787.6	1796.8	1777.9	1777.5
30°	1760.1	1740.2	1750.9	1730.5	1728.7
32.5°	1706.8	1688.4	1696.1	1675.7	1673.9
35°	1621.3	1605.0	1610.2	1591.7	1589.8
37.5°	1531.4	1514.7	1520.6	1504.7	1504.0
40°	1467.7	1456.8	1458.4	1445.4	1441.8
42.5°	1408.5	1396.2	1397.7	1384.8	1384.0
45°	1317.8	1308.7	1308.5	1295.6	1295.6
47.5°	1221.5	1214.7	1212.6	1201.9	1201.5
50°	1154.9	1149.5	1147.5	1138.2	1136.4
52.5°	1085.3	1082.8	1076.4	1068.6	1068.3
55°	977.2	973.6	964.3	958.7	956.9
57.5°	859.9	852.6	842.1	834.0	835.5
60°	775.5	768.2	753.3	749.6	749.6
62.5°	694.1	685.4	670.4	665.2	668.1
65°	577.5	566.6	553.4	549.7	551.5
67.5°	471.6	461.8	447.5	447.5	446.0
70°	403.5	398.0	386.8	386.8	386.8
72.5°	342.8	340.2	332.0	332.0	330.6
75°	262.8	262.8	259.1	257.2	255.4
77.5°	196.9	197.6	195.8	193.9	190.6
80°	155.5	159.1	157.3	155.4	153.6
82.5°	117.0	120.6	120.3	117.0	116.6
85°	61.1	66.5	66.6	66.6	66.6
87.5°	16.6	23.2	25.6	26.2	27.7
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)