

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: P563515

Luminaire Tested: **SQ4-PP3-0U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563515
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

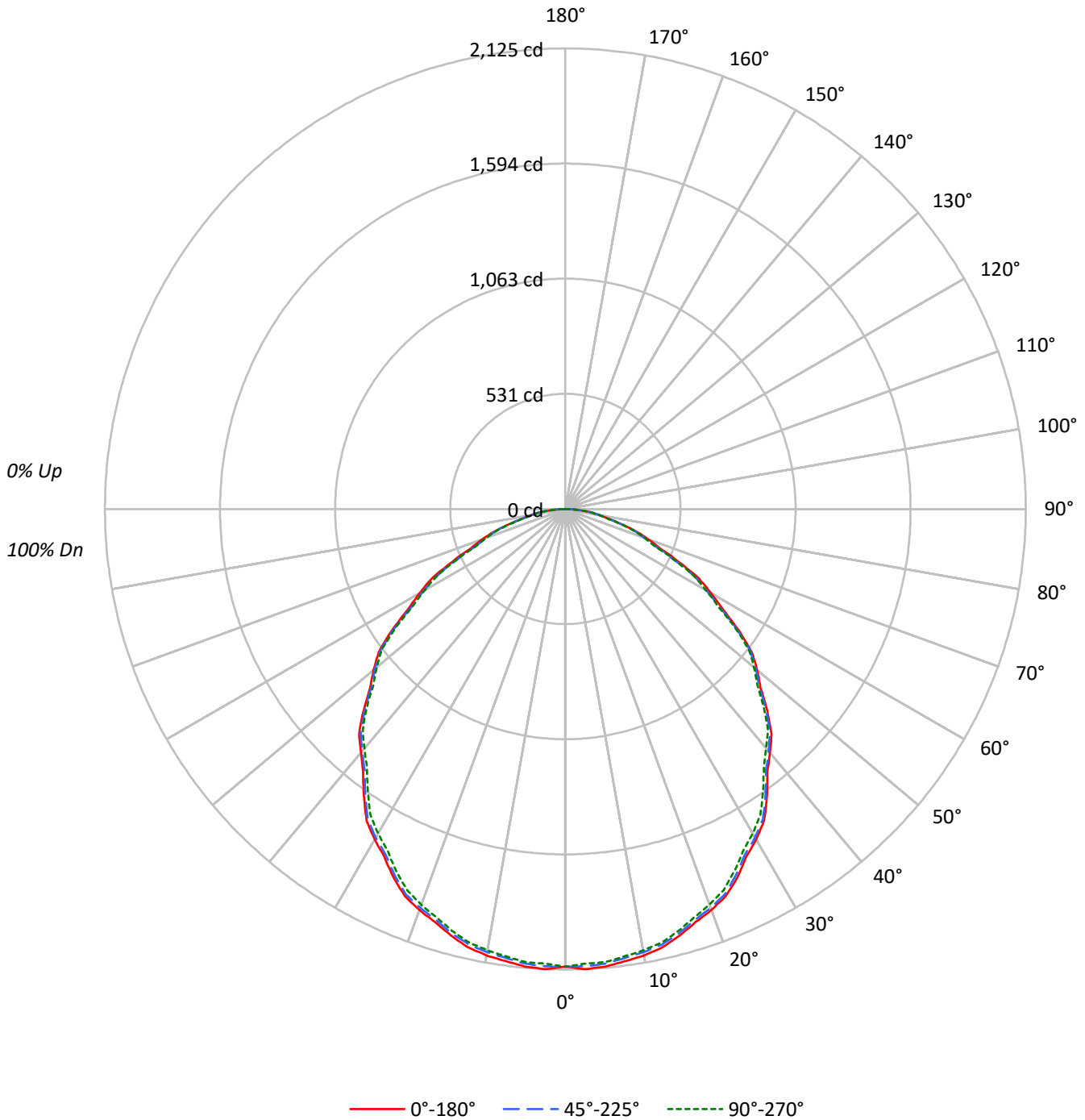
Lumens per Lamp: N/A
Luminaire Lumens: 5405.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

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	3.7
10°-20°	570.2	10.5
20°-30°	854.1	15.8
30°-40°	1001.8	18.5
40°-50°	1004.9	18.6
50°-60°	857.2	15.9
60°-70°	559.1	10.3
70°-80°	280.5	5.2
80°-90°	77.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1623.9	30.0
0°-40°	2625.7	48.6
0°-60°	4487.8	83.0
0°-90°	5405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5405.0	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	74
90°	0	0	0	0	0	



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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°	16.3	22.1	23.7	23.7	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)