

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: P563634

Luminaire Tested: **SQ4-PP3-100U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563634
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

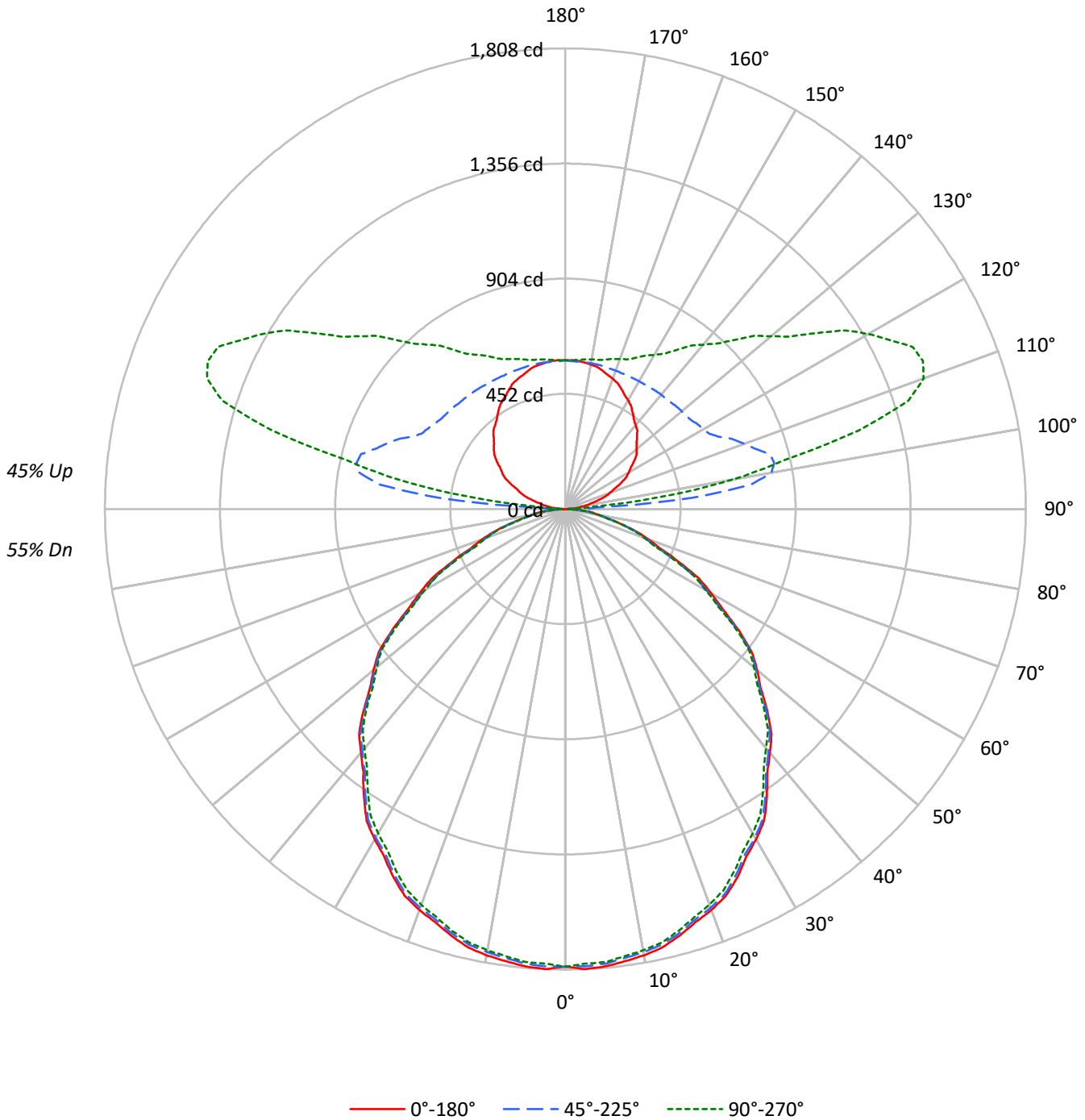
Lumens per Lamp: N/A
Luminaire Lumens: 8390.5 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16596	16537
10°	16669	16551	16477
15°	16559	16469	16378
20°	16450	16356	16233
25°	16253	16141	15982
30°	15953	15869	15668
35°	15535	15429	15234
40°	15038	14944	14773
45°	14628	14525	14381
50°	14102	14012	13877
55°	13373	13196	13095
60°	12175	11826	11767
65°	10726	10278	10243
70°	9261	8878	8878
75°	7971	7857	7746
80°	7029	7109	6944
85°	5505	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	2.0
10°-20°	485.1	5.8
20°-30°	726.6	8.7
30°-40°	852.2	10.2
40°-50°	854.9	10.2
50°-60°	729.3	8.7
60°-70°	475.6	5.7
70°-80°	238.6	2.8
80°-90°	67.2	0.8
90°-100°	273.2	3.3
100°-110°	754.3	9.0
110°-120°	777.9	9.3
120°-130°	625.1	7.5
130°-140°	491.3	5.9
140°-150°	376.8	4.5
150°-160°	270.8	3.2
160°-170°	165.6	2.0
170°-180°	55.8	0.7
0°-30°	1381.6	16.5
0°-40°	2233.8	26.6
0°-60°	3818.0	45.5
0°-90°	4599.5	54.8
90°-120°	1805.5	21.5
90°-150°	3298.7	39.3
90°-180°	3791.0	45.2
0°-180°	8390.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1803	1786	1792	1786	1786	171
15°	1734	1717	1724	1718	1715	489
25°	1597	1578	1586	1571	1570	734
35°	1379	1366	1370	1354	1353	862
45°	1121	1113	1113	1102	1102	863
55°	831	828	820	816	814	739
65°	491	482	471	468	469	490
75°	224	224	220	219	217	243
85°	52	57	57	57	57	61
90°	2	4	8	8	9	5
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.6	1796.6	1796.6	1796.6	1796.6
2.5°	1807.9	1793.2	1796.6	1793.9	1786.5
5°	1802.9	1786.0	1791.9	1785.6	1785.6
7.5°	1790.6	1772.1	1778.0	1771.7	1771.4
10°	1779.3	1760.8	1766.7	1760.4	1758.8
12.5°	1762.9	1744.4	1751.6	1744.0	1743.7
15°	1733.6	1716.7	1724.2	1717.8	1714.7
17.5°	1700.6	1682.1	1691.1	1682.3	1681.0
20°	1675.4	1656.9	1665.9	1653.3	1653.3
22.5°	1645.1	1626.7	1636.9	1620.6	1620.6
25°	1596.6	1578.2	1585.6	1571.4	1569.9
27.5°	1539.0	1520.8	1528.6	1512.5	1512.2
30°	1497.4	1480.5	1489.6	1472.2	1470.7
32.5°	1452.1	1436.4	1442.9	1425.6	1424.1
35°	1379.3	1365.5	1369.9	1354.1	1352.6
37.5°	1302.8	1288.6	1293.7	1280.1	1279.5
40°	1248.6	1239.4	1240.8	1229.7	1226.6
42.5°	1198.3	1187.8	1189.1	1178.1	1177.5
45°	1121.1	1113.4	1113.2	1102.2	1102.2
47.5°	1039.2	1033.4	1031.7	1022.5	1022.2
50°	982.5	977.9	976.2	968.3	966.8
52.5°	923.3	921.2	915.8	909.2	908.9
55°	831.4	828.3	820.4	815.6	814.1
57.5°	731.6	725.4	716.4	709.5	710.8
60°	659.8	653.6	640.9	637.7	637.7
62.5°	590.5	583.1	570.3	566.0	568.4
65°	491.3	482.0	470.8	467.7	469.2
67.5°	401.2	392.9	380.7	380.7	379.5
70°	343.3	338.6	329.1	329.1	329.1
72.5°	291.6	289.5	282.5	282.5	281.2
75°	223.6	223.6	220.4	218.8	217.3
77.5°	167.5	168.2	166.6	165.0	162.2
80°	132.3	135.3	133.8	132.2	130.7
82.5°	99.5	102.6	102.3	99.5	99.2
85°	52.0	56.6	56.7	56.7	56.7
87.5°	14.2	19.5	21.6	21.9	23.3
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)