

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: P563346

Luminaire Tested: **SQ4-PP3-050U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563346
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-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

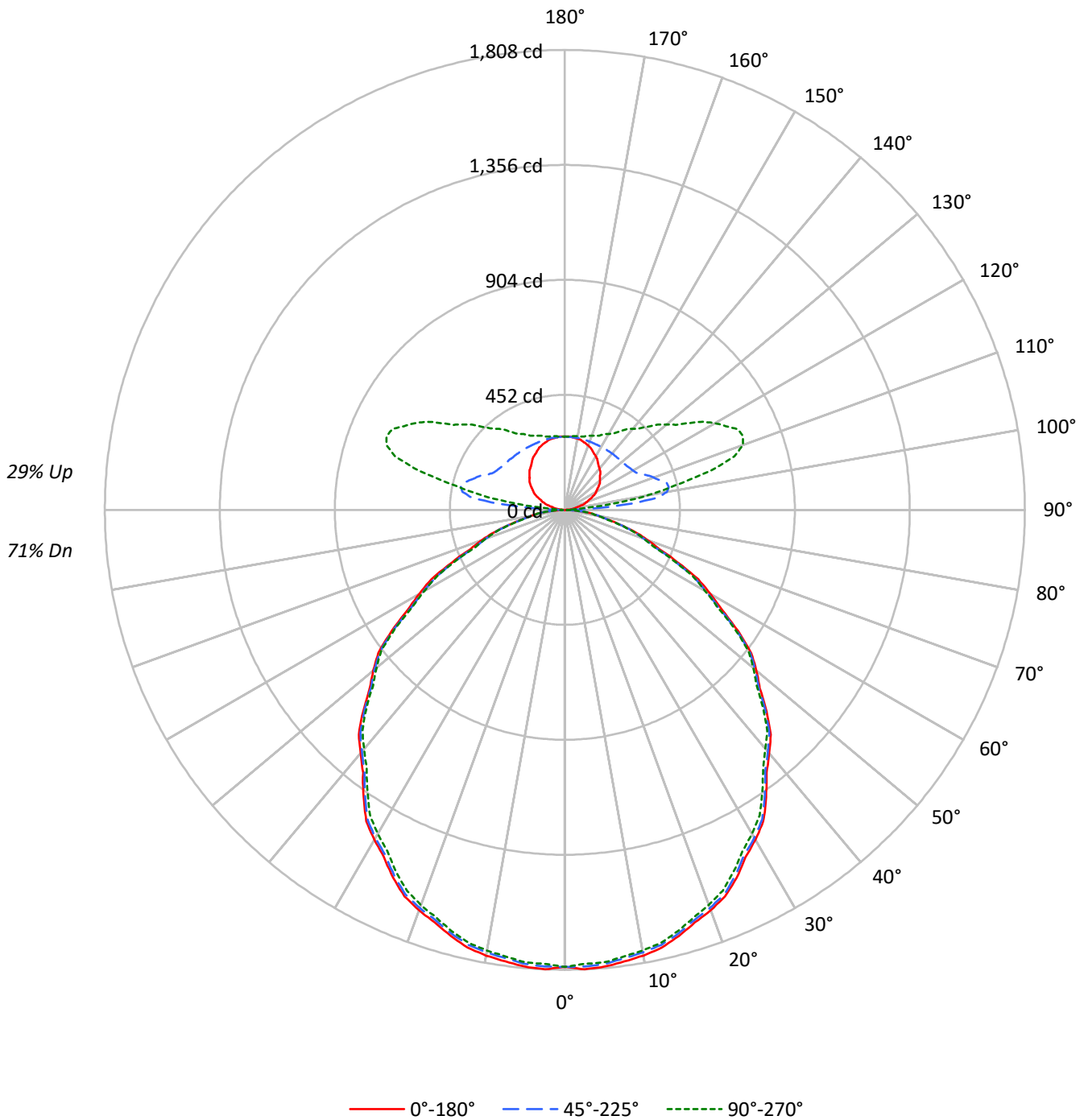
Lumens per Lamp: N/A
Luminaire Lumens: 6479.6 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

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	2.6
10°-20°	485.1	7.5
20°-30°	726.6	11.2
30°-40°	852.2	13.2
40°-50°	854.9	13.2
50°-60°	729.3	11.3
60°-70°	475.6	7.3
70°-80°	238.6	3.7
80°-90°	67.1	1.0
90°-100°	138.2	2.1
100°-110°	375.5	5.8
110°-120°	386.1	6.0
120°-130°	308.7	4.8
130°-140°	242.5	3.7
140°-150°	186.0	2.9
150°-160°	133.7	2.1
160°-170°	81.8	1.3
170°-180°	27.6	0.4
0°-30°	1381.6	21.3
0°-40°	2233.8	34.5
0°-60°	3818.0	58.9
0°-90°	4599.4	71.0
90°-120°	899.8	13.9
90°-150°	1637.0	25.3
90°-180°	1880.0	29.0
0°-180°	6479.6	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°	1	4	6	8	8	3
95°	20	76	241	105	70	22
105°	67	104	413	629	592	71
115°	118	144	330	658	749	117
125°	163	186	299	504	594	145
135°	196	218	291	410	463	152
145°	227	243	287	349	375	142
155°	256	266	285	313	322	118
165°	278	281	286	298	299	78
175°	288	289	287	291	290	27
180°	288	288	288	288	288	

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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°	14.0	19.5	21.5	21.8	23.1
90°	0.9	3.6	6.5	8.3	8.3
92.5°	8.3	37.8	65.7	28.2	23.9
95°	20.4	75.6	240.7	104.8	70.4
97.5°	33.7	83.5	369.1	287.1	201.7
100°	42.6	88.8	408.3	413.9	334.3
102.5°	51.5	94.0	418.7	511.9	441.7
105°	66.7	103.8	413.0	628.8	591.7
107.5°	82.4	115.2	389.1	689.1	699.4
110°	93.5	123.4	371.3	701.0	745.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.1	131.6	353.5	691.1	757.9
115°	118.5	143.9	330.5	657.6	749.1
117.5°	133.0	157.2	315.9	610.1	713.1
120°	142.6	166.1	309.3	578.2	680.5
122.5°	150.7	174.3	304.8	546.3	645.0
125°	163.0	185.6	299.1	503.9	594.4
127.5°	173.9	196.3	295.9	471.8	549.4
130°	180.6	202.3	294.4	451.6	521.3
132.5°	187.2	208.9	293.0	434.4	496.1
135°	196.3	218.0	290.7	410.4	463.0
137.5°	206.1	225.8	289.6	389.3	433.5
140°	212.0	231.0	288.9	375.9	415.7
142.5°	218.0	235.5	288.1	365.4	398.7
145°	226.8	243.1	287.0	348.7	375.0
147.5°	236.8	250.8	286.1	335.6	356.3
150°	243.5	255.3	286.1	328.1	344.4
152.5°	248.7	259.0	285.4	321.4	334.8
155°	256.5	265.5	285.2	313.2	322.2
157.5°	264.1	271.1	285.2	307.6	314.4
160°	268.5	274.9	285.2	303.8	309.3
162.5°	273.0	277.8	285.9	300.8	304.8
165°	277.8	281.4	286.1	298.2	299.1
167.5°	282.8	284.6	287.0	295.0	295.7
170°	284.3	286.1	287.0	293.5	293.5
172.5°	285.7	286.8	287.0	292.0	292.0
175°	288.0	288.9	287.0	290.7	289.8
177.5°	288.7	288.7	286.5	289.4	288.0
180°	288.0	288.0	288.0	288.0	288.0

(END OF REPORT)