

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: P563250

Luminaire Tested: **SQ4-PP3-025U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563250
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

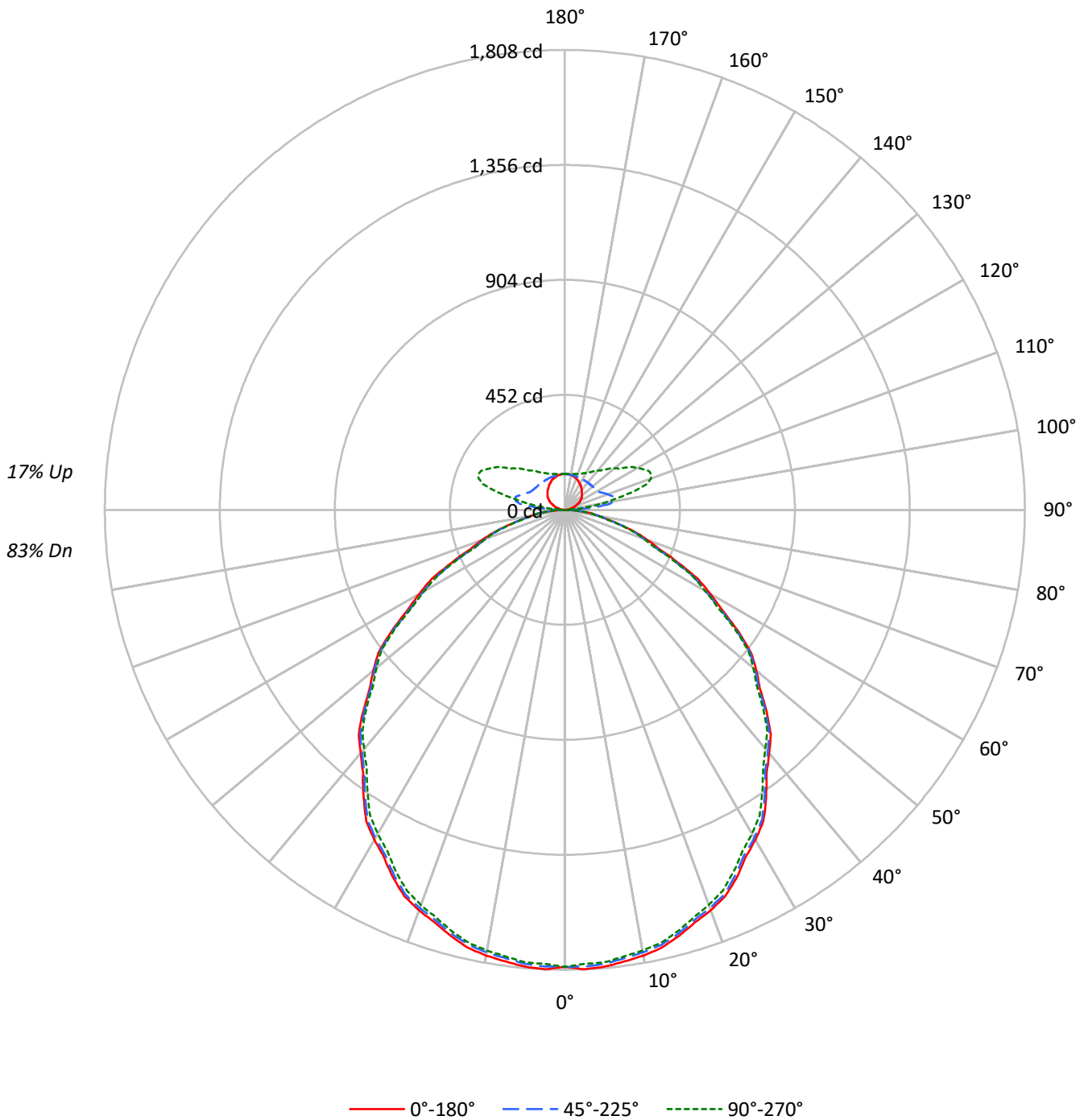
Lumens per Lamp: N/A
Luminaire Lumens: 5510.8 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

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	3.1
10°-20°	485.1	8.8
20°-30°	726.6	13.2
30°-40°	852.2	15.5
40°-50°	854.9	15.5
50°-60°	729.3	13.2
60°-70°	475.6	8.6
70°-80°	238.6	4.3
80°-90°	66.8	1.2
90°-100°	68.6	1.2
100°-110°	180.2	3.3
110°-120°	186.9	3.4
120°-130°	149.9	2.7
130°-140°	117.6	2.1
140°-150°	90.3	1.6
150°-160°	65.0	1.2
160°-170°	39.8	0.7
170°-180°	13.4	0.2
0°-30°	1381.6	25.1
0°-40°	2233.8	40.5
0°-60°	3818.0	69.3
0°-90°	4599.1	83.5
90°-120°	435.7	7.9
90°-150°	793.5	14.4
90°-180°	912.0	16.5
0°-180°	5510.8	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	3	7	4	4	3
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	



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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	19.3	21.6	20.9	22.1
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)