

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: P564114

Luminaire Tested: **SQ4-PR1-075U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564114
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-125D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

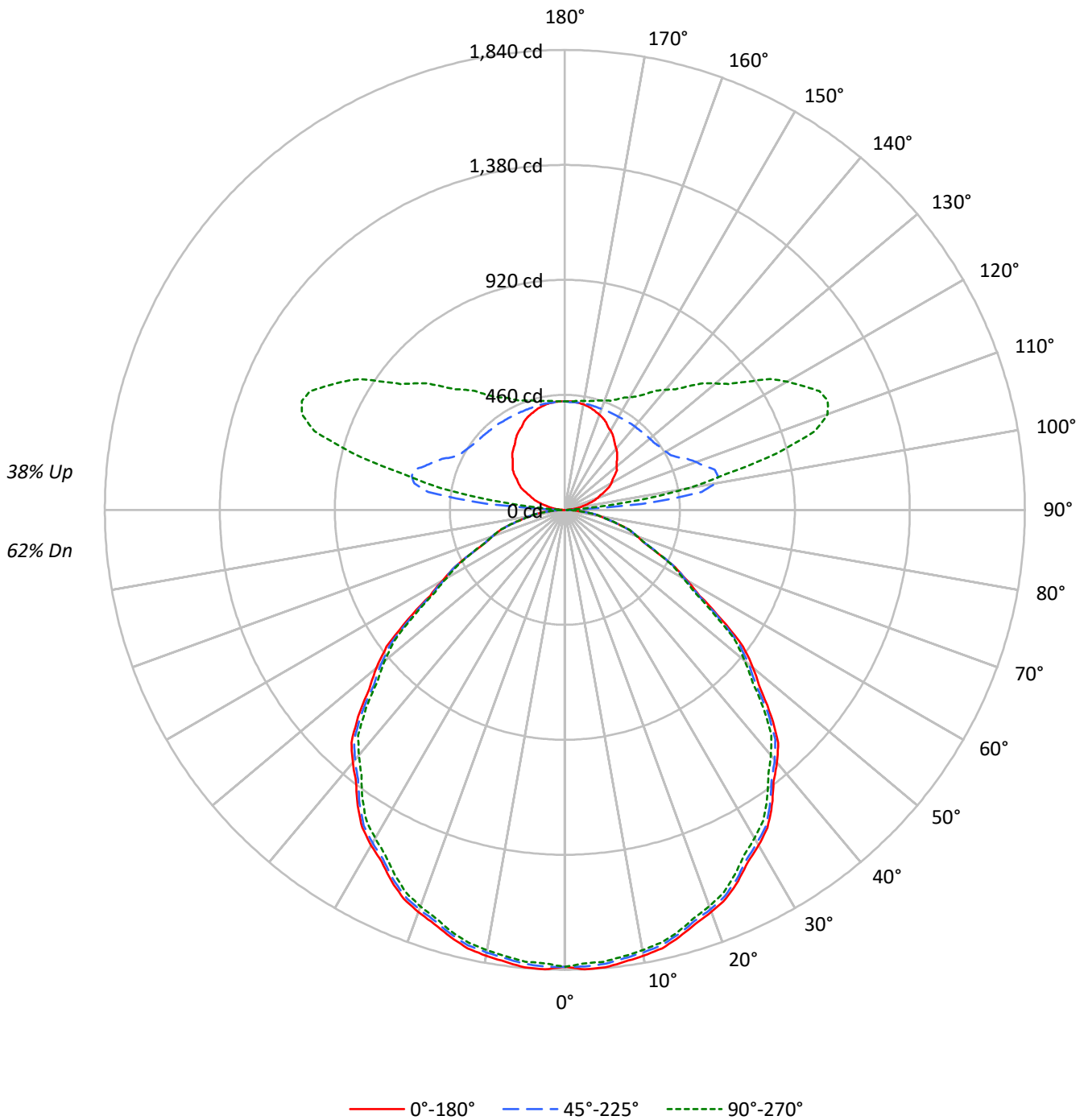
Lumens per Lamp: N/A
Luminaire Lumens: 7398.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17023	16891	16803
10°	16968	16850	16761
15°	16894	16788	16698
20°	16809	16701	16577
25°	16690	16578	16386
30°	16511	16393	16158
35°	16266	16124	15895
40°	15896	15725	15440
45°	15248	14980	14672
50°	14107	13766	13495
55°	12312	12033	11781
60°	10376	10287	10084
65°	8975	9007	8940
70°	8241	8284	8284
75°	7917	7917	7971
80°	7449	7529	7449
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	2.3
10°-20°	494.7	6.7
20°-30°	746.2	10.1
30°-40°	889.1	12.0
40°-50°	876.6	11.8
50°-60°	669.9	9.1
60°-70°	414.6	5.6
70°-80°	235.5	3.2
80°-90°	72.7	1.0
90°-100°	204.6	2.8
100°-110°	562.9	7.6
110°-120°	581.0	7.9
120°-130°	465.5	6.3
130°-140°	365.6	4.9
140°-150°	280.2	3.8
150°-160°	201.4	2.7
160°-170°	123.2	1.7
170°-180°	41.5	0.6
0°-30°	1413.8	19.1
0°-40°	2302.9	31.1
0°-60°	3849.4	52.0
0°-90°	4572.2	61.8
90°-120°	1348.4	18.2
90°-150°	2459.7	33.2
90°-180°	2826.0	38.2
0°-180°	7398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1838	1818	1824	1817	1814	174
15°	1769	1750	1758	1751	1748	499
25°	1640	1620	1628	1611	1610	755
35°	1444	1427	1432	1413	1411	901
45°	1169	1153	1148	1128	1124	895
55°	765	753	748	735	732	686
65°	411	408	413	410	410	416
75°	222	222	222	224	224	235
85°	57	60	63	63	63	66
90°	1	4	6	8	8	4
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.5	1828.5	1828.5	1828.5	1828.5
2.5°	1839.9	1823.8	1828.5	1824.5	1815.9
5°	1838.0	1818.0	1823.8	1817.4	1814.3
7.5°	1823.8	1804.1	1809.9	1803.6	1801.7
10°	1811.2	1792.7	1798.6	1792.2	1789.1
12.5°	1797.3	1777.6	1784.7	1777.1	1774.0
15°	1768.7	1750.2	1757.6	1751.3	1748.2
17.5°	1737.2	1717.5	1724.9	1717.6	1713.6
20°	1712.0	1693.5	1701.0	1689.9	1688.4
22.5°	1684.3	1665.8	1673.2	1658.4	1658.1
25°	1639.5	1619.5	1628.5	1611.1	1609.6
27.5°	1586.3	1567.8	1575.3	1557.6	1555.7
30°	1549.8	1531.3	1538.7	1519.8	1516.7
32.5°	1508.2	1490.9	1497.2	1478.2	1476.4
35°	1444.2	1427.3	1431.6	1412.7	1411.2
37.5°	1371.5	1356.1	1358.6	1337.7	1336.2
40°	1319.8	1304.4	1305.6	1283.6	1282.0
42.5°	1263.1	1247.7	1246.4	1224.3	1222.8
45°	1168.6	1153.2	1148.1	1127.6	1124.5
47.5°	1060.9	1045.5	1036.0	1019.3	1017.1
50°	982.8	967.4	959.1	944.9	940.2
52.5°	898.4	883.0	876.0	863.0	858.4
55°	765.4	753.1	748.1	735.4	732.4
57.5°	639.1	630.8	629.4	617.0	615.8
60°	562.3	557.6	557.5	546.5	546.5
62.5°	496.7	493.4	495.8	488.5	487.3
65°	411.1	408.0	412.6	409.5	409.5
67.5°	343.3	343.3	346.2	344.9	344.9
70°	305.5	305.5	307.1	307.1	307.1
72.5°	271.5	270.3	274.4	274.3	273.1
75°	222.1	222.1	222.1	223.6	223.6
77.5°	172.9	173.2	174.5	174.2	172.9
80°	140.2	141.7	141.7	140.2	140.2
82.5°	107.4	109.0	109.0	108.6	107.4
85°	56.7	59.8	63.0	63.0	63.0
87.5°	16.6	22.0	26.5	26.8	25.6
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)