

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: P563750

Luminaire Tested: **SQ4-PP3-125U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563750
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

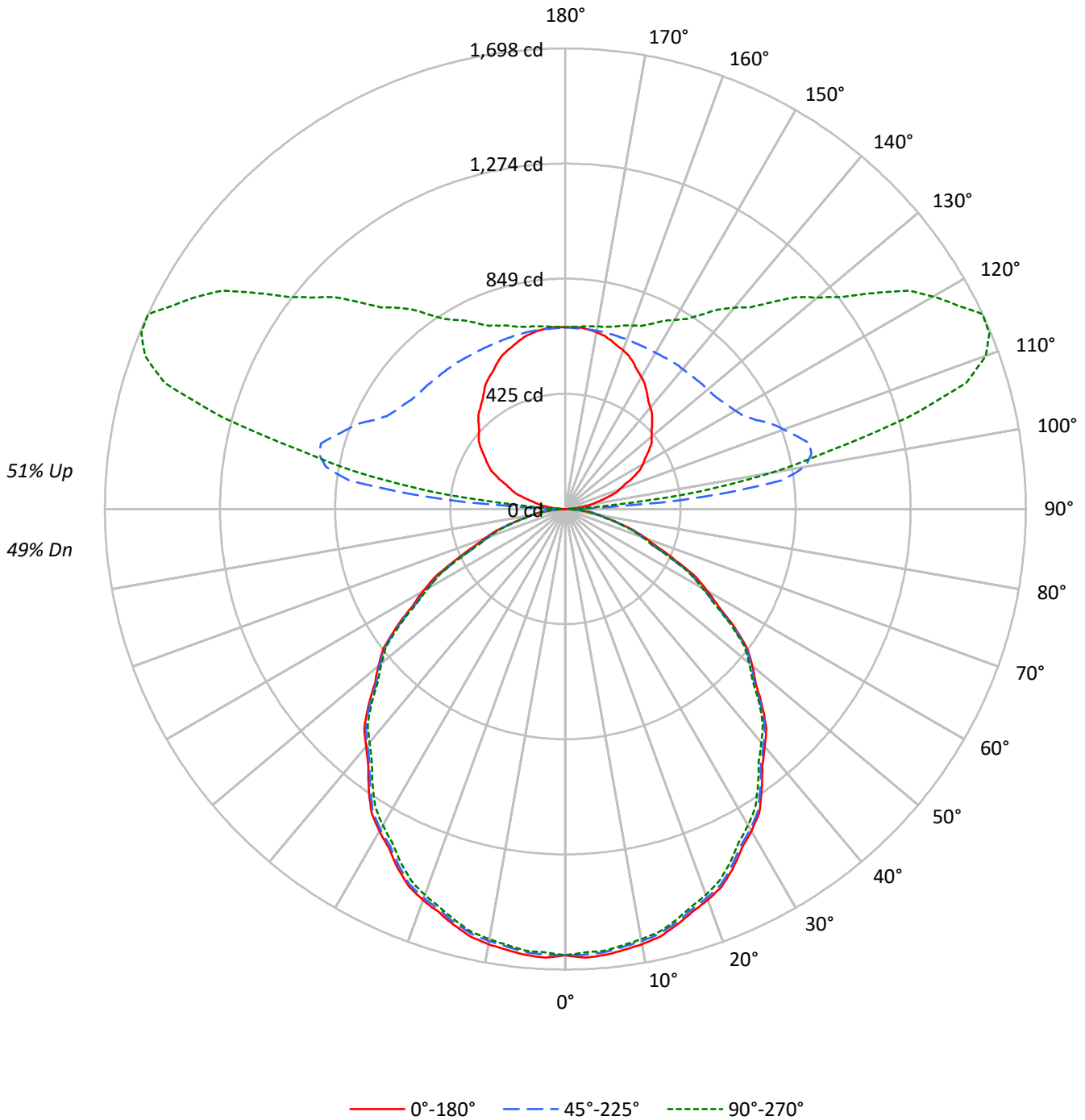
Lumens per Lamp: N/A
Luminaire Lumens: 8534.8 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15158	15091
15°	15166	15083	15001
20°	15065	14981	14867
25°	14886	14783	14637
30°	14610	14534	14349
35°	14229	14131	13953
40°	13773	13687	13530
45°	13398	13304	13172
50°	12917	12833	12710
55°	12247	12085	11993
60°	11149	10830	10778
65°	9822	9414	9381
70°	8481	8130	8130
75°	7301	7197	7094
80°	6434	6514	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.8
10°-20°	444.3	5.2
20°-30°	665.5	7.8
30°-40°	780.5	9.1
40°-50°	783.0	9.2
50°-60°	668.0	7.8
60°-70°	435.6	5.1
70°-80°	218.6	2.6
80°-90°	62.0	0.7
90°-100°	313.2	3.7
100°-110°	843.6	9.9
110°-120°	885.4	10.4
120°-130°	718.5	8.4
130°-140°	563.5	6.6
140°-150°	432.6	5.1
150°-160°	311.0	3.6
160°-170°	190.0	2.2
170°-180°	64.1	0.8
0°-30°	1265.3	14.8
0°-40°	2045.9	24.0
0°-60°	3496.8	41.0
0°-90°	4213.0	49.4
90°-120°	2042.2	23.9
90°-150°	3756.7	44.0
90°-180°	4322.0	50.6
0°-180°	8534.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1651	1636	1641	1635	1635	157
15°	1588	1572	1579	1573	1570	448
25°	1462	1445	1452	1439	1438	672
35°	1263	1251	1255	1240	1239	789
45°	1027	1020	1020	1010	1010	791
55°	761	759	751	747	746	677
65°	450	442	431	428	430	449
75°	205	205	202	200	199	222
85°	48	52	52	52	52	56
90°	2	5	10	11	11	5
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.4	1645.4	1645.4	1645.4	1645.4
2.5°	1655.8	1642.3	1645.4	1643.0	1636.2
5°	1651.2	1635.7	1641.1	1635.4	1635.4
7.5°	1640.0	1623.0	1628.4	1622.7	1622.4
10°	1629.6	1612.7	1618.0	1612.2	1610.8
12.5°	1614.6	1597.7	1604.2	1597.3	1597.0
15°	1587.8	1572.3	1579.1	1573.3	1570.5
17.5°	1557.5	1540.6	1548.8	1540.7	1539.6
20°	1534.4	1517.5	1525.8	1514.2	1514.2
22.5°	1506.7	1489.8	1499.2	1484.2	1484.2
25°	1462.3	1445.4	1452.2	1439.2	1437.8
27.5°	1409.5	1392.9	1400.0	1385.3	1385.0
30°	1371.4	1355.9	1364.2	1348.3	1346.9
32.5°	1329.9	1315.5	1321.6	1305.7	1304.2
35°	1263.3	1250.6	1254.6	1240.2	1238.8
37.5°	1193.2	1180.2	1184.8	1172.4	1171.9
40°	1143.6	1135.1	1136.4	1126.2	1123.4
42.5°	1097.4	1087.9	1089.1	1079.0	1078.4
45°	1026.8	1019.7	1019.6	1009.5	1009.5
47.5°	951.8	946.4	944.9	936.5	936.2
50°	899.9	895.6	894.1	886.9	885.5
52.5°	845.7	843.7	838.7	832.7	832.4
55°	761.4	758.6	751.3	747.0	745.6
57.5°	670.0	664.4	656.2	649.8	651.0
60°	604.2	598.6	586.9	584.1	584.1
62.5°	540.8	534.0	522.3	518.3	520.6
65°	449.9	441.5	431.2	428.3	429.7
67.5°	367.5	359.8	348.7	348.7	347.5
70°	314.4	310.2	301.4	301.4	301.4
72.5°	267.1	265.1	258.7	258.7	257.6
75°	204.8	204.8	201.9	200.4	199.0
77.5°	153.4	154.0	152.6	151.1	148.5
80°	121.1	124.0	122.6	121.1	119.7
82.5°	91.1	94.0	93.7	91.1	90.9
85°	47.6	51.8	51.9	51.9	51.9
87.5°	13.0	18.2	20.5	20.7	21.8
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)