

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: P563655

Luminaire Tested: **SQ4-PP3-100U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563655
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

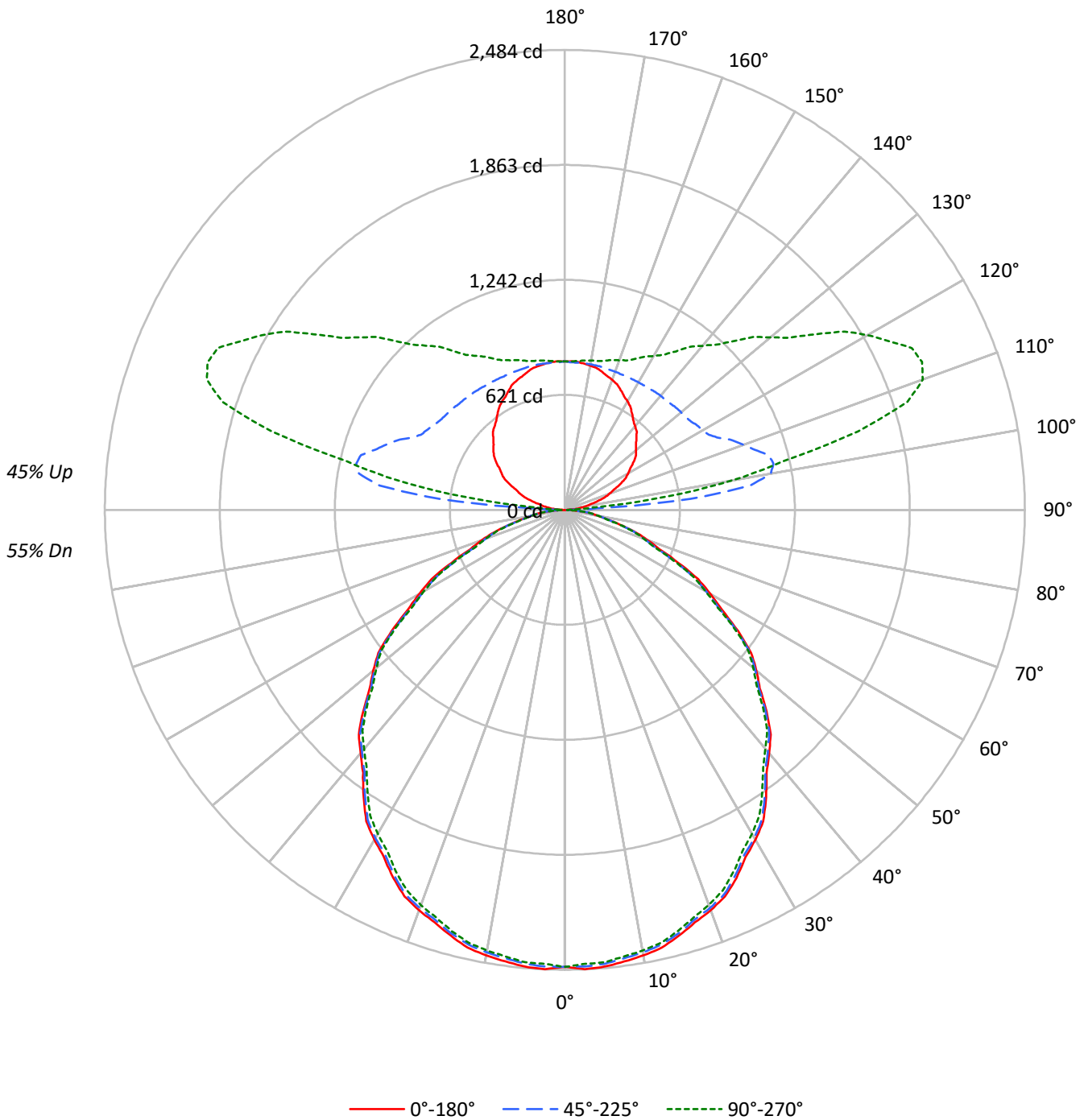
Lumens per Lamp: N/A
Luminaire Lumens: 11526.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	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°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14887	14783	14637
30°	14611	14534	14350
35°	14228	14131	13953
40°	13773	13687	13530
45°	13398	13304	13171
50°	12916	12834	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7196	7094
80°	6436	6514	6358
85°	5039	5498	5498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	2.0
10°-20°	666.4	5.8
20°-30°	998.2	8.7
30°-40°	1170.8	10.2
40°-50°	1174.5	10.2
50°-60°	1001.9	8.7
60°-70°	653.4	5.7
70°-80°	327.8	2.8
80°-90°	92.4	0.8
90°-100°	375.4	3.3
100°-110°	1036.3	9.0
110°-120°	1068.7	9.3
120°-130°	858.8	7.5
130°-140°	674.9	5.9
140°-150°	517.7	4.5
150°-160°	372.0	3.2
160°-170°	227.5	2.0
170°-180°	76.7	0.7
0°-30°	1898.0	16.5
0°-40°	3068.8	26.6
0°-60°	5245.2	45.5
0°-90°	6318.8	54.8
90°-120°	2480.4	21.5
90°-150°	4531.8	39.3
90°-180°	5208.0	45.2
0°-180°	11526.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2477	2454	2462	2453	2453	235
15°	2382	2358	2369	2360	2356	672
25°	2194	2168	2178	2159	2157	1009
35°	1895	1876	1882	1860	1858	1184
45°	1540	1530	1529	1514	1514	1186
55°	1142	1138	1127	1120	1118	1015
65°	675	662	647	642	645	674
75°	307	307	303	301	298	333
85°	71	78	78	78	78	84
90°	3	5	10	12	13	7
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2468.2	2468.2	2468.2	2468.2	2468.2
2.5°	2483.7	2463.4	2468.2	2464.5	2454.3
5°	2476.8	2453.6	2461.7	2453.0	2453.0
7.5°	2460.0	2434.6	2442.6	2434.0	2433.6
10°	2444.4	2419.0	2427.1	2418.4	2416.3
12.5°	2421.9	2396.5	2406.3	2395.9	2395.5
15°	2381.6	2358.4	2368.7	2359.9	2355.7
17.5°	2336.2	2310.8	2323.2	2311.1	2309.4
20°	2301.6	2276.2	2288.6	2271.3	2271.3
22.5°	2260.1	2234.7	2248.8	2226.3	2226.3
25°	2193.5	2168.1	2178.3	2158.8	2156.7
27.5°	2114.3	2089.3	2100.0	2077.9	2077.5
30°	2057.2	2033.9	2046.4	2022.5	2020.4
32.5°	1994.9	1973.3	1982.3	1958.5	1956.4
35°	1894.9	1875.9	1882.0	1860.3	1858.2
37.5°	1789.8	1770.3	1777.3	1758.6	1757.8
40°	1715.4	1702.7	1704.6	1689.3	1685.1
42.5°	1646.2	1631.8	1633.6	1618.5	1617.6
45°	1540.2	1529.6	1529.4	1514.2	1514.2
47.5°	1427.7	1419.7	1417.3	1404.8	1404.3
50°	1349.8	1343.5	1341.2	1330.3	1328.2
52.5°	1268.5	1265.5	1258.1	1249.0	1248.6
55°	1142.2	1137.9	1127.0	1120.5	1118.4
57.5°	1005.0	996.5	984.2	974.8	976.5
60°	906.4	897.9	880.4	876.1	876.1
62.5°	811.2	801.0	783.5	777.5	780.9
65°	674.9	662.2	646.8	642.5	644.6
67.5°	551.2	539.8	523.1	523.0	521.3
70°	471.6	465.2	452.1	452.1	452.1
72.5°	400.6	397.7	388.1	388.0	386.3
75°	307.2	307.2	302.8	300.6	298.5
77.5°	230.2	231.0	228.9	226.6	222.8
80°	181.7	185.9	183.9	181.7	179.5
82.5°	136.7	140.9	140.6	136.7	136.3
85°	71.4	77.7	77.9	77.9	77.9
87.5°	19.5	26.8	29.7	30.0	32.0
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)