

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: P564327

Luminaire Tested: **SQ4-PR1-100U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

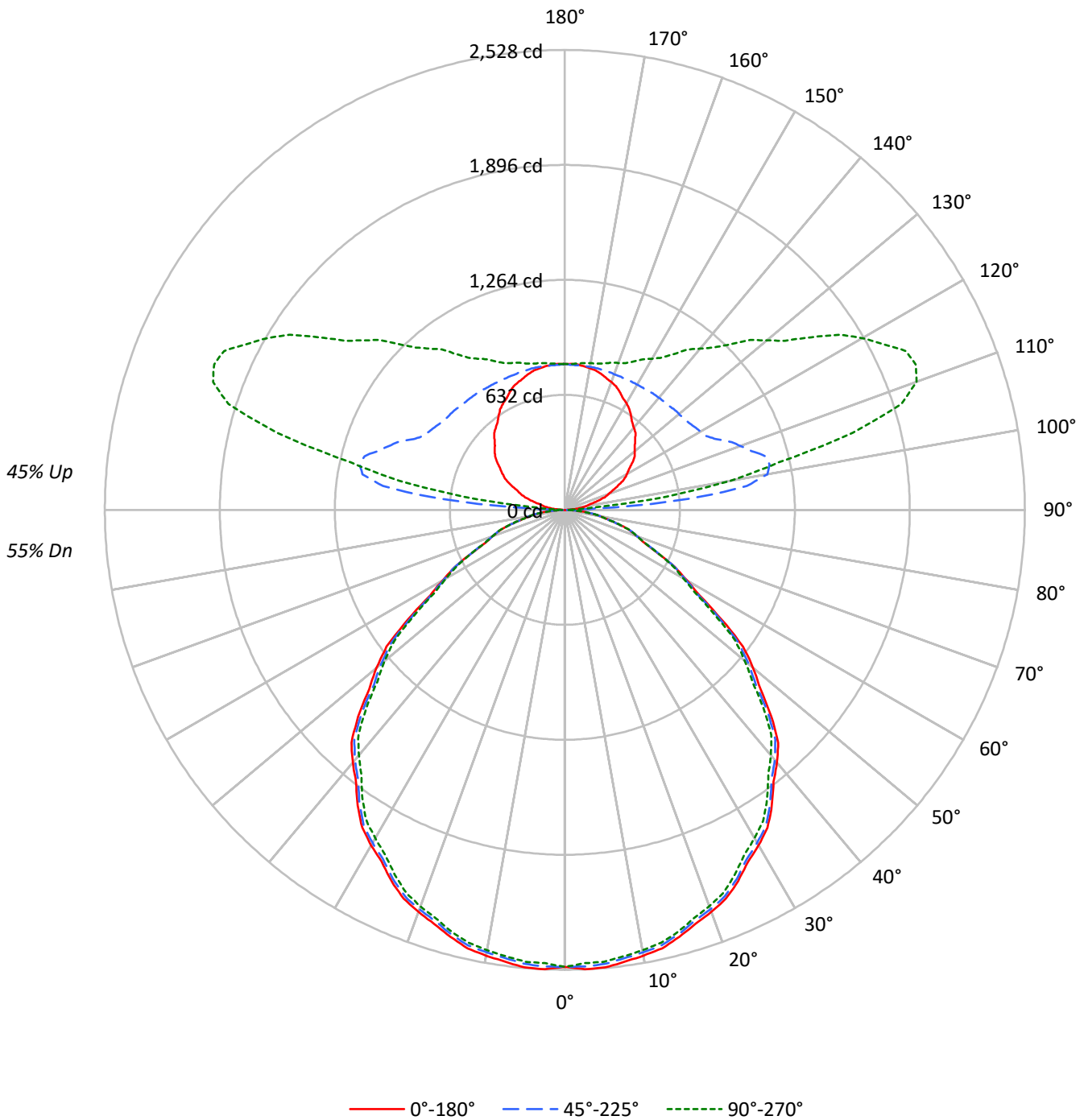
Lumens per Lamp: N/A
Luminaire Lumens: 11489.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15432	15351
15°	15472	15376	15293
20°	15394	15296	15182
25°	15286	15183	15007
30°	15122	15014	14798
35°	14898	14768	14557
40°	14559	14402	14141
45°	13965	13720	13438
50°	12919	12609	12360
55°	11276	11021	10789
60°	9502	9422	9236
65°	8219	8251	8188
70°	7550	7587	7587
75°	7251	7251	7301
80°	6822	6896	6822
85°	5498	6105	6105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	2.1
10°-20°	679.7	5.9
20°-30°	1025.1	8.9
30°-40°	1221.4	10.6
40°-50°	1204.2	10.5
50°-60°	920.3	8.0
60°-70°	569.5	5.0
70°-80°	323.5	2.8
80°-90°	100.1	0.9
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°	1942.3	16.9
0°-40°	3163.8	27.5
0°-60°	5288.4	46.0
0°-90°	6281.5	54.7
90°-120°	2480.4	21.6
90°-150°	4531.8	39.4
90°-180°	5208.0	45.3
0°-180°	11489.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2525	2498	2506	2497	2493	240
15°	2430	2404	2415	2406	2402	686
25°	2252	2225	2237	2213	2211	1037
35°	1984	1961	1967	1941	1939	1238
45°	1605	1584	1577	1549	1545	1230
55°	1052	1035	1028	1010	1006	942
65°	565	560	567	563	563	572
75°	305	305	305	307	307	322
85°	78	82	86	86	86	91
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°	2512.0	2512.0	2512.0	2512.0	2512.0
2.5°	2527.6	2505.6	2512.0	2506.6	2494.7
5°	2525.0	2497.5	2505.5	2496.8	2492.6
7.5°	2505.5	2478.5	2486.5	2477.8	2475.2
10°	2488.2	2462.8	2470.9	2462.2	2457.9
12.5°	2469.2	2442.1	2451.9	2441.4	2437.2
15°	2429.8	2404.4	2414.7	2405.9	2401.7
17.5°	2386.5	2359.5	2369.7	2359.6	2354.1
20°	2351.9	2326.5	2336.8	2321.6	2319.5
22.5°	2313.8	2288.4	2298.7	2278.3	2277.9
25°	2252.4	2224.9	2237.2	2213.4	2211.3
27.5°	2179.3	2153.9	2164.1	2139.8	2137.3
30°	2129.1	2103.7	2113.9	2087.9	2083.6
32.5°	2071.9	2048.2	2056.8	2030.8	2028.2
35°	1984.1	1960.8	1966.8	1940.8	1938.7
37.5°	1884.1	1863.0	1866.4	1837.8	1835.7
40°	1813.2	1792.0	1793.7	1763.3	1761.2
42.5°	1735.3	1714.1	1712.3	1682.0	1679.9
45°	1605.4	1584.3	1577.3	1549.1	1544.9
47.5°	1457.5	1436.3	1423.3	1400.3	1397.3
50°	1350.1	1329.0	1317.7	1298.1	1291.7
52.5°	1234.2	1213.0	1203.4	1185.6	1179.2
55°	1051.5	1034.6	1027.7	1010.3	1006.1
57.5°	878.0	866.6	864.6	847.7	846.0
60°	772.4	766.1	765.9	750.8	750.8
62.5°	682.4	677.8	681.1	671.1	669.4
65°	564.7	560.5	566.9	562.6	562.6
67.5°	471.7	471.7	475.6	473.8	473.8
70°	419.8	419.8	421.9	421.9	421.9
72.5°	373.0	371.3	376.9	376.9	375.2
75°	305.1	305.1	305.1	307.2	307.2
77.5°	237.6	238.0	239.7	239.3	237.6
80°	192.6	194.7	194.7	192.6	192.6
82.5°	147.6	149.7	149.7	149.3	147.6
85°	77.9	82.1	86.5	86.5	86.5
87.5°	23.0	30.3	36.7	36.9	35.5
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)