

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: P564255

Luminaire Tested: **SQ4-PR1-100U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564255
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-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

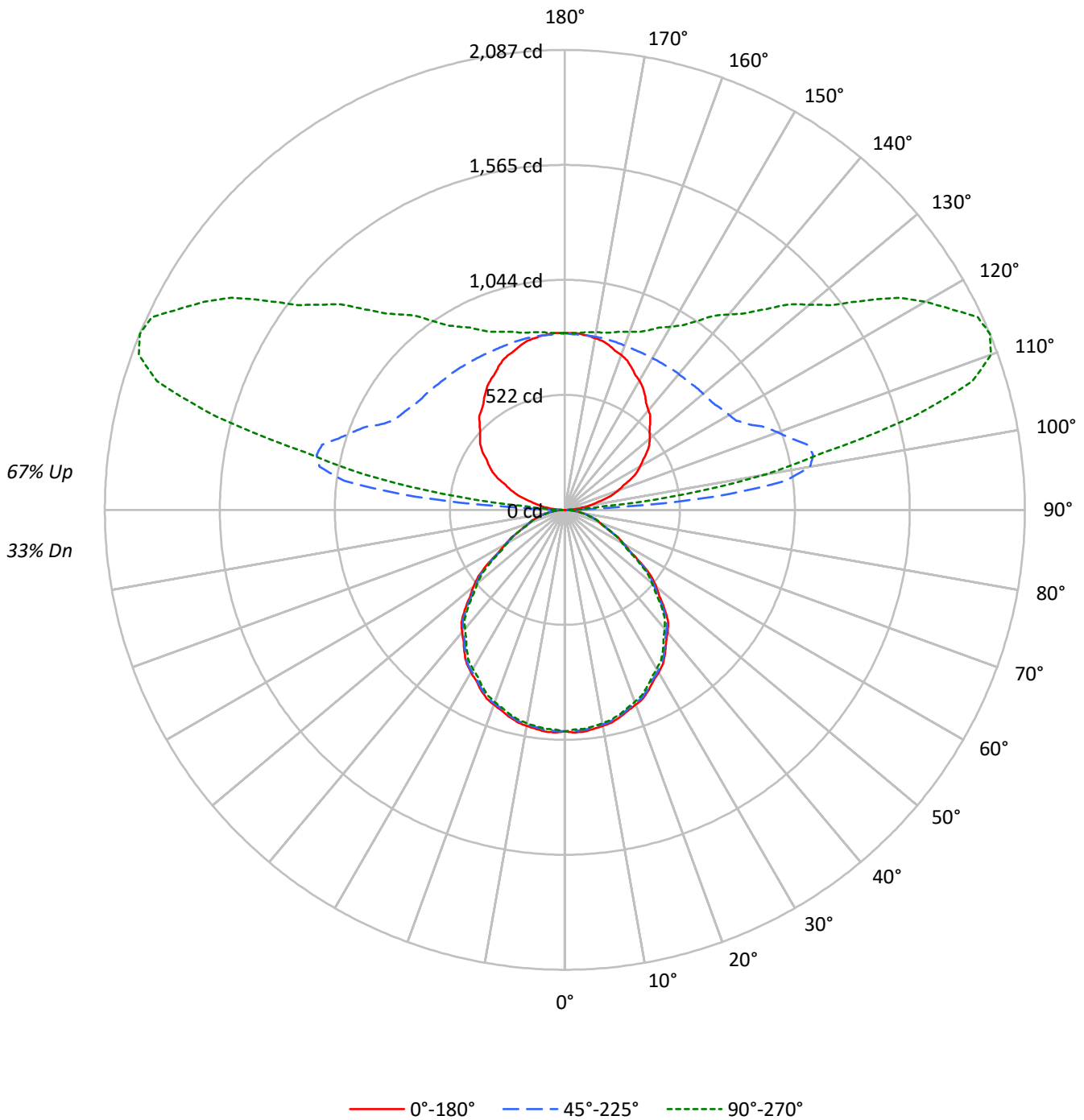
Lumens per Lamp: N/A
Luminaire Lumens: 7722.5 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6183	6183	6183
5°	6239	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6050	6008	5921
35°	5961	5909	5825
40°	5825	5763	5658
45°	5588	5490	5377
50°	5169	5046	4946
55°	4512	4410	4317
60°	3802	3770	3695
65°	3289	3301	3276
70°	3021	3036	3036
75°	2902	2902	2921
80°	2731	2759	2731
85°	2202	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.2
10°-20°	272.0	3.5
20°-30°	410.2	5.3
30°-40°	488.8	6.3
40°-50°	481.9	6.2
50°-60°	368.3	4.8
60°-70°	227.9	3.0
70°-80°	129.4	1.7
80°-90°	41.0	0.5
90°-100°	375.4	4.9
100°-110°	1036.3	13.4
110°-120°	1068.7	13.8
120°-130°	858.8	11.1
130°-140°	674.9	8.7
140°-150°	517.7	6.7
150°-160°	372.0	4.8
160°-170°	227.5	2.9
170°-180°	76.7	1.0
0°-30°	777.2	10.1
0°-40°	1266.0	16.4
0°-60°	2116.1	27.4
0°-90°	2514.5	32.6
90°-120°	2480.4	32.1
90°-150°	4531.8	58.7
90°-180°	5208.0	67.4
0°-180°	7722.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1010	999	1003	999	997	96
15°	972	962	966	963	961	274
25°	901	890	895	886	885	415
35°	794	785	787	777	776	495
45°	642	634	631	620	618	492
55°	421	414	411	404	403	377
65°	226	224	227	225	225	229
75°	122	122	122	123	123	129
85°	31	33	35	35	35	36
90°	3	5	10	12	13	5
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°	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1011.4	1002.6	1005.2	1003.0	998.2
5°	1010.4	999.4	1002.6	999.1	997.4
7.5°	1002.6	991.7	994.9	991.5	990.4
10°	995.6	985.5	988.7	985.2	983.5
12.5°	988.0	977.2	981.1	976.9	975.2
15°	972.3	962.1	966.2	962.7	961.0
17.5°	954.9	944.1	948.2	944.2	942.0
20°	941.1	930.9	935.0	929.0	928.1
22.5°	925.9	915.7	919.8	911.7	911.5
25°	901.3	890.3	895.2	885.7	884.8
27.5°	872.0	861.8	865.9	856.2	855.2
30°	851.9	841.8	845.9	835.4	833.7
32.5°	829.1	819.6	823.0	812.6	811.6
35°	793.9	784.6	787.0	776.6	775.7
37.5°	753.9	745.5	746.8	735.4	734.5
40°	725.5	717.1	717.7	705.6	704.7
42.5°	694.4	685.9	685.2	673.0	672.2
45°	642.4	633.9	631.1	619.9	618.2
47.5°	583.2	574.7	569.5	560.3	559.1
50°	540.2	531.8	527.3	519.4	516.9
52.5°	493.8	485.4	481.5	474.4	471.8
55°	420.8	414.0	411.2	404.3	402.6
57.5°	351.3	346.8	346.0	339.2	338.5
60°	309.1	306.5	306.5	300.4	300.4
62.5°	273.1	271.2	272.5	268.5	267.9
65°	226.0	224.3	226.8	225.1	225.1
67.5°	188.7	188.7	190.3	189.6	189.6
70°	168.0	168.0	168.8	168.8	168.8
72.5°	149.3	148.6	150.8	150.8	150.1
75°	122.1	122.1	122.1	122.9	122.9
77.5°	95.1	95.2	95.9	95.7	95.1
80°	77.1	77.9	77.9	77.1	77.1
82.5°	59.0	59.9	59.9	59.7	59.0
85°	31.2	32.9	34.6	34.6	34.6
87.5°	9.5	12.7	15.9	16.2	15.7
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)