

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: P561999

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561999
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

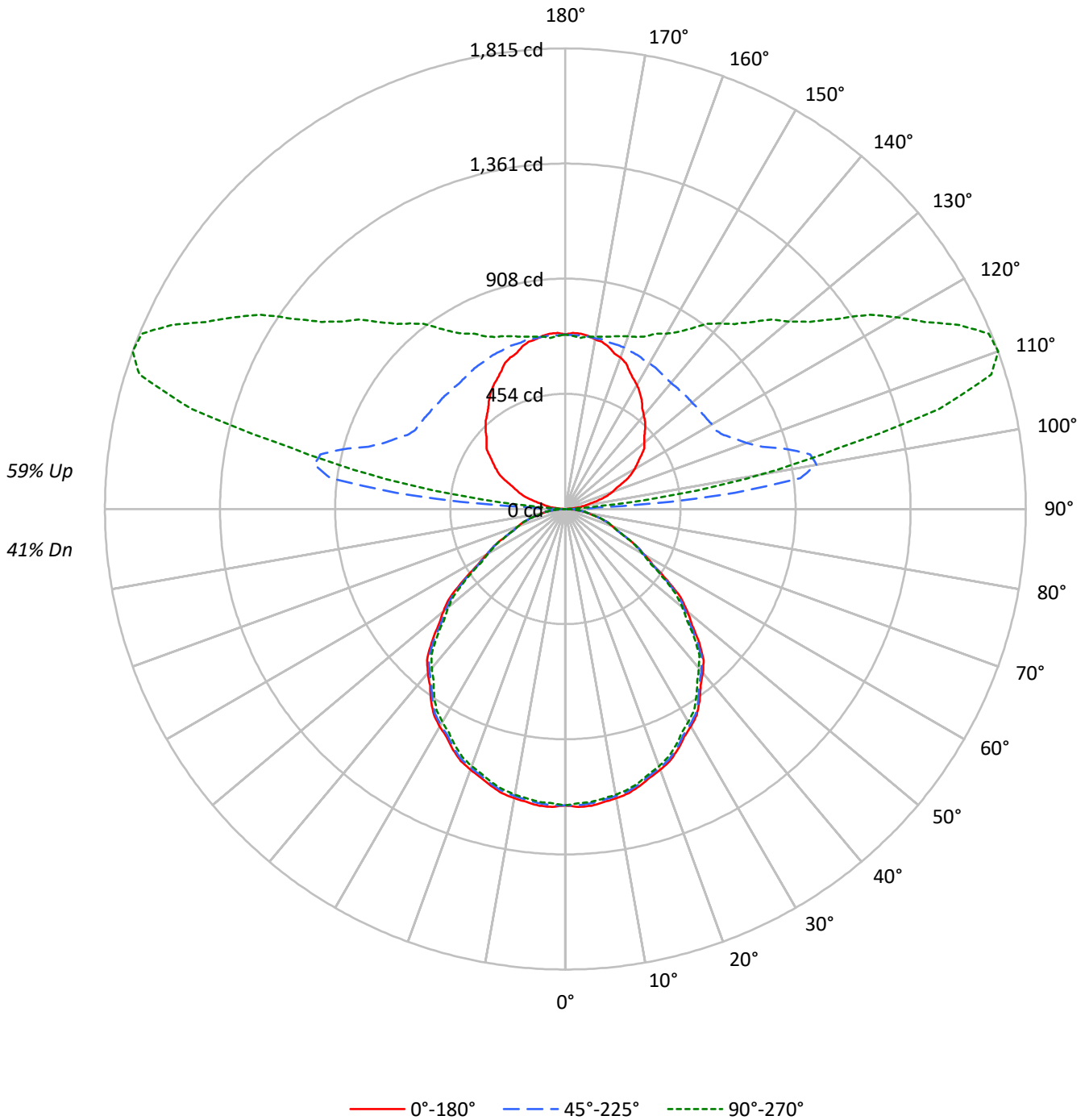
Lumens per Lamp: N/A
Luminaire Lumens: 7190.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	29
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	33	31	30	25
4	73	63	55	49	66	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	22	19
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10777	10777	10777
5°	10874	10791	10734
10°	10839	10764	10707
15°	10792	10725	10667
20°	10738	10669	10590
25°	10663	10590	10468
30°	10547	10472	10322
35°	10391	10301	10154
40°	10154	10046	9864
45°	9740	9571	9374
50°	9011	8794	8622
55°	7866	7687	7525
60°	6628	6573	6442
65°	5733	5755	5711
70°	5266	5293	5293
75°	5058	5058	5094
80°	4755	4814	4755
85°	3832	4256	4256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	1.5
10°-20°	316.0	4.4
20°-30°	476.7	6.6
30°-40°	568.0	7.9
40°-50°	560.0	7.8
50°-60°	428.0	6.0
60°-70°	264.8	3.7
70°-80°	150.4	2.1
80°-90°	45.7	0.6
90°-100°	313.2	4.4
100°-110°	891.3	12.4
110°-120°	853.9	11.9
120°-130°	675.9	9.4
130°-140°	542.5	7.5
140°-150°	424.7	5.9
150°-160°	310.7	4.3
160°-170°	192.5	2.7
170°-180°	65.3	0.9
0°-30°	903.2	12.6
0°-40°	1471.2	20.5
0°-60°	2459.1	34.2
0°-90°	2920.1	40.6
90°-120°	2058.5	28.6
90°-150°	3701.5	51.5
90°-180°	4270.0	59.4
0°-180°	7190.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1174	1161	1165	1161	1159	111
15°	1130	1118	1123	1119	1117	319
25°	1047	1035	1040	1029	1028	482
35°	923	912	915	902	902	576
45°	746	737	734	720	718	572
55°	489	481	478	470	468	438
65°	263	261	264	262	262	266
75°	142	142	142	143	143	150
85°	36	38	40	40	40	42
90°	0	0	0	0	0	3
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	

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CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1175.3	1165.1	1168.1	1165.6	1160.1
5°	1174.1	1161.4	1165.1	1161.0	1159.0
7.5°	1165.1	1152.5	1156.2	1152.2	1151.0
10°	1157.0	1145.2	1149.0	1144.9	1142.9
12.5°	1148.2	1135.6	1140.1	1135.3	1133.3
15°	1129.9	1118.1	1122.8	1118.8	1116.8
17.5°	1109.7	1097.2	1101.9	1097.2	1094.7
20°	1093.7	1081.8	1086.6	1079.5	1078.6
22.5°	1075.9	1064.1	1068.9	1059.4	1059.2
25°	1047.4	1034.6	1040.3	1029.2	1028.3
27.5°	1013.4	1001.6	1006.3	995.0	993.8
30°	990.0	978.2	983.0	970.9	968.9
32.5°	963.5	952.4	956.4	944.3	943.1
35°	922.6	911.8	914.6	902.5	901.5
37.5°	876.1	866.3	867.9	854.6	853.6
40°	843.1	833.3	834.1	820.0	819.0
42.5°	806.9	797.1	796.2	782.1	781.1
45°	746.5	736.7	733.5	720.3	718.4
47.5°	677.7	667.9	661.8	651.1	649.8
50°	627.8	618.0	612.7	603.6	600.7
52.5°	573.9	564.1	559.6	551.3	548.3
55°	489.0	481.1	477.9	469.8	467.8
57.5°	408.3	403.0	402.0	394.2	393.4
60°	359.2	356.2	356.2	349.1	349.1
62.5°	317.3	315.2	316.7	312.1	311.3
65°	262.6	260.6	263.6	261.6	261.6
67.5°	219.3	219.3	221.1	220.3	220.3
70°	195.2	195.2	196.2	196.2	196.2
72.5°	173.5	172.7	175.3	175.2	174.5
75°	141.9	141.9	141.9	142.9	142.9
77.5°	110.5	110.7	111.5	111.3	110.5
80°	89.5	90.5	90.6	89.5	89.5
82.5°	68.6	69.6	69.6	69.4	68.6
85°	36.2	38.2	40.2	40.2	40.2
87.5°	10.5	13.6	16.1	16.1	15.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)