

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: P564736

Luminaire Tested: **SQ4-PW1-075U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564736
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

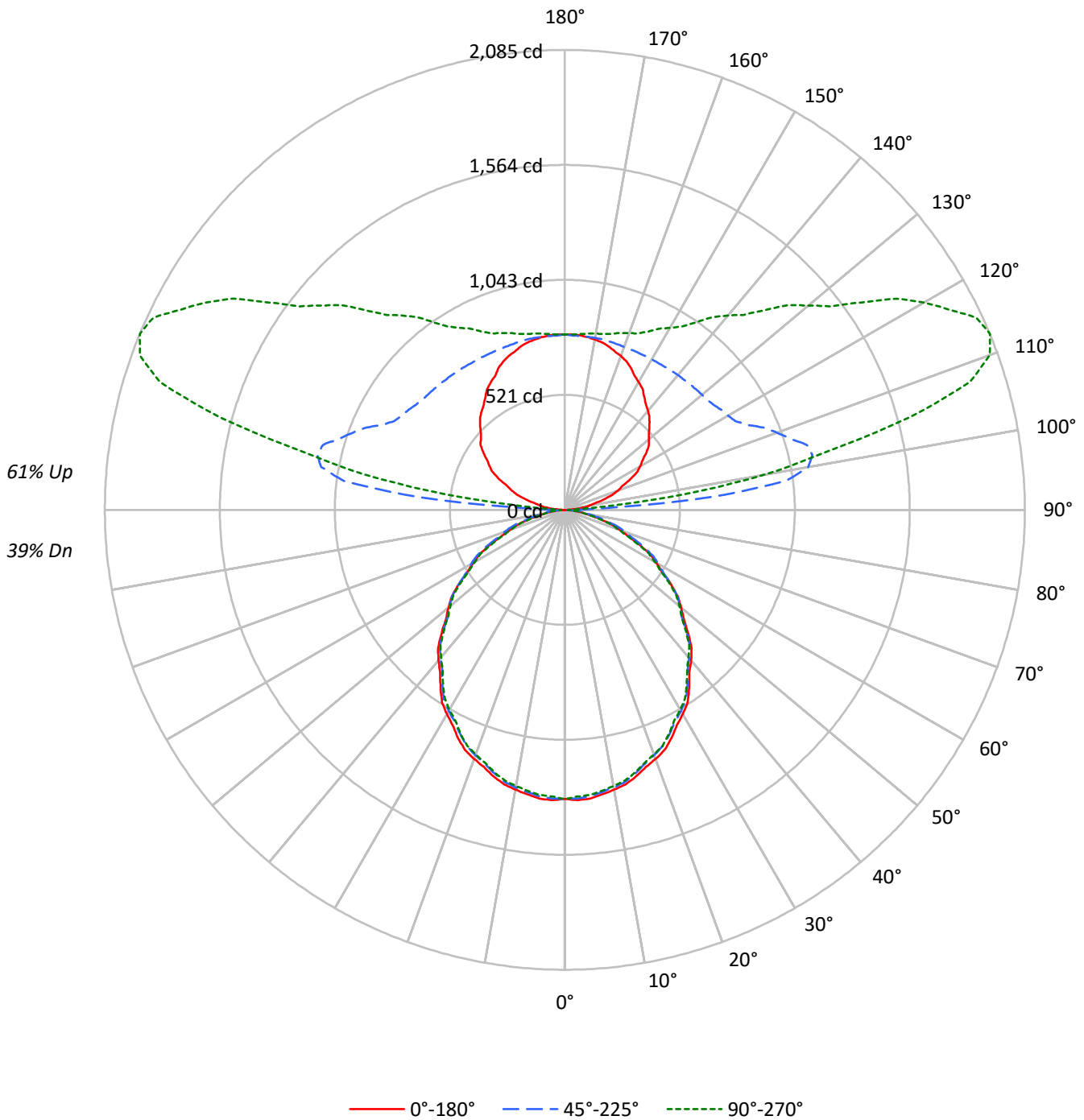
Lumens per Lamp: N/A
Luminaire Lumens: 8511.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28				
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24				
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16				
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14				
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12				
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6083	6035	6008
10°	6035	5986	5954
15°	5971	5904	5882
20°	5899	5809	5797
25°	5817	5711	5694
30°	5694	5608	5571
35°	5532	5454	5421
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4346
65°	4045	4246	3944
70°	3566	3907	3472
75°	3044	3497	2962
80°	2362	2943	2391
85°	1530	2260	2017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.4
10°-20°	348.3	4.1
20°-30°	516.7	6.1
30°-40°	604.6	7.1
40°-50°	601.9	7.1
50°-60°	519.7	6.1
60°-70°	374.1	4.4
70°-80°	196.2	2.3
80°-90°	50.7	0.6
90°-100°	374.7	4.4
100°-110°	1031.0	12.1
110°-120°	1064.2	12.5
120°-130°	852.6	10.0
130°-140°	669.7	7.9
140°-150°	513.2	6.0
150°-160°	369.0	4.3
160°-170°	225.6	2.7
170°-180°	76.1	0.9
0°-30°	988.4	11.6
0°-40°	1592.9	18.7
0°-60°	2714.6	31.9
0°-90°	3335.5	39.2
90°-120°	2470.0	29.0
90°-150°	4505.5	52.9
90°-180°	5176.0	60.8
0°-180°	8511.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1314	1299	1303	1300	1298	124
15°	1250	1234	1236	1234	1232	352
25°	1143	1124	1122	1115	1119	525
35°	982	969	968	959	963	614
45°	790	783	779	777	776	609
55°	585	584	585	577	576	522
65°	371	382	389	374	361	367
75°	171	187	196	183	166	183
85°	29	38	43	40	38	38
90°	2	7	12	15	15	5
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1317.6	1306.8	1310.2	1307.3	1301.0
5°	1313.7	1299.0	1303.3	1299.8	1297.5
7.5°	1300.3	1286.7	1289.9	1286.2	1284.8
10°	1288.3	1274.7	1277.9	1273.2	1271.0
12.5°	1274.4	1260.0	1263.1	1258.5	1257.1
15°	1250.2	1234.4	1236.3	1234.0	1231.7
17.5°	1222.0	1206.0	1206.3	1202.6	1202.2
20°	1201.7	1184.8	1183.2	1178.7	1180.9
22.5°	1179.5	1161.7	1160.1	1153.7	1156.9
25°	1142.8	1123.6	1122.0	1115.2	1118.6
27.5°	1100.3	1081.4	1081.4	1071.8	1075.4
30°	1068.9	1050.9	1052.8	1041.3	1045.9
32.5°	1035.7	1019.4	1020.5	1009.0	1013.5
35°	982.4	968.8	968.5	959.4	962.7
37.5°	927.9	915.9	914.0	908.7	909.6
40°	890.0	879.9	876.2	872.7	872.7
42.5°	850.3	841.1	837.4	834.8	833.9
45°	789.6	782.8	779.2	776.9	775.7
47.5°	729.6	723.2	720.1	718.5	717.3
50°	688.0	683.5	682.2	678.7	677.6
52.5°	646.4	643.7	642.5	638.1	637.0
55°	585.3	584.1	585.3	577.2	576.0
57.5°	521.5	523.4	527.1	516.2	513.5
60°	479.1	483.6	488.3	475.5	471.0
62.5°	435.7	442.9	449.5	434.8	428.5
65°	370.6	381.8	389.0	373.7	361.3
67.5°	307.8	321.8	330.4	313.9	299.9
70°	264.4	280.2	289.7	273.2	257.4
72.5°	226.5	244.1	251.9	236.3	220.5
75°	170.8	186.6	196.2	183.2	166.2
77.5°	121.2	136.1	144.1	132.7	118.7
80°	88.9	104.7	110.8	101.3	90.0
82.5°	63.0	76.1	80.3	74.6	67.0
85°	28.9	37.9	42.7	40.4	38.1
87.5°	7.7	15.0	19.9	20.6	21.5
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)