

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: P564732

Luminaire Tested: **SQ4-PW1-075U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564732
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

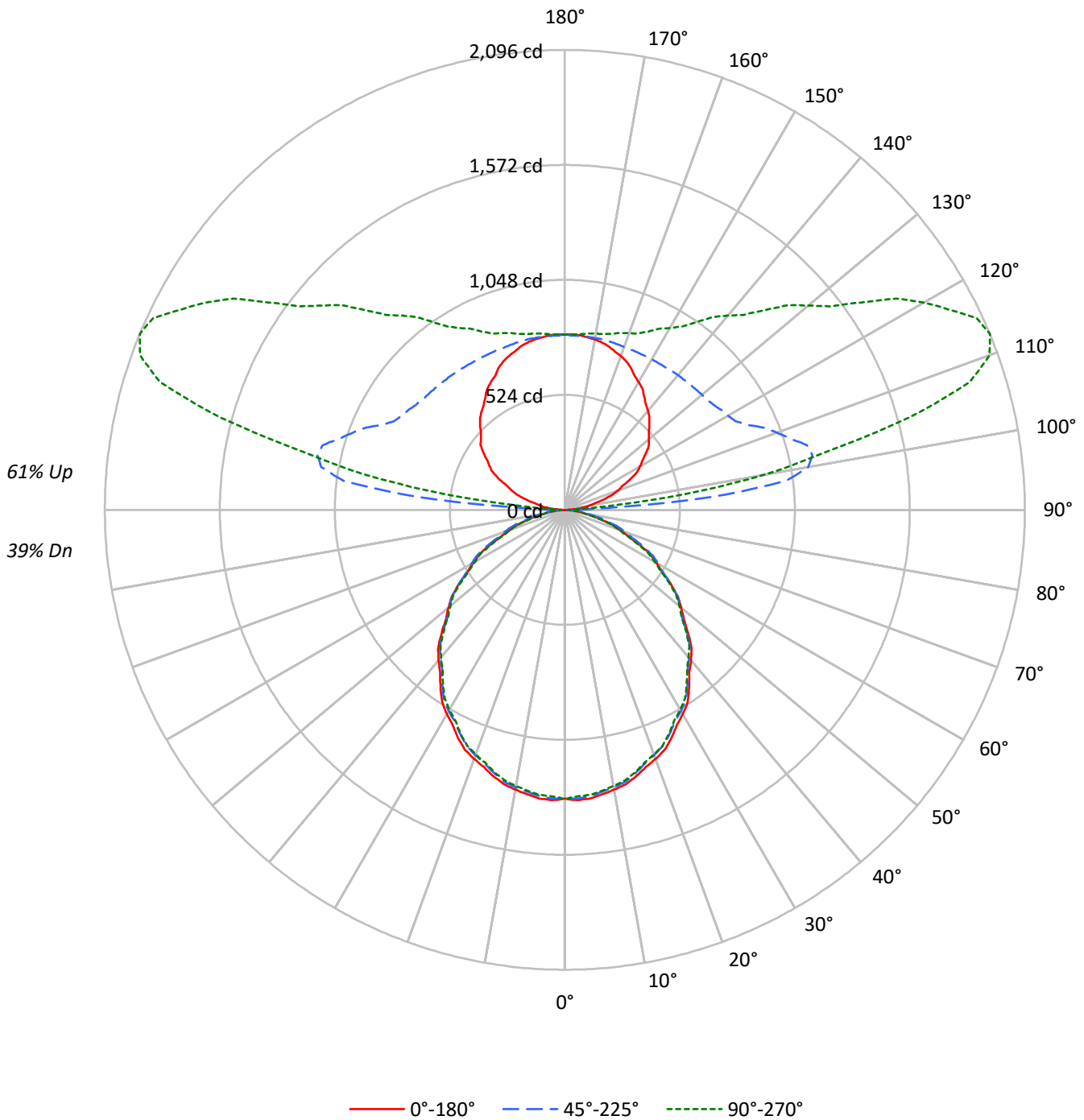
Lumens per Lamp: N/A
Luminaire Lumens: 8555.1 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	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°	6075	6075	6075
5°	6114	6066	6039
10°	6066	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5847	5740	5723
30°	5723	5637	5599
35°	5561	5482	5450
40°	5387	5303	5282
45°	5177	5110	5087
50°	4963	4921	4888
55°	4732	4732	4657
60°	4442	4528	4368
65°	4065	4268	3965
70°	3584	3928	3489
75°	3060	3515	2978
80°	2372	2959	2404
85°	1535	2271	2027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	1.4
10°-20°	350.1	4.1
20°-30°	519.3	6.1
30°-40°	607.7	7.1
40°-50°	604.9	7.1
50°-60°	522.4	6.1
60°-70°	376.0	4.4
70°-80°	197.2	2.3
80°-90°	50.9	0.6
90°-100°	376.7	4.4
100°-110°	1036.3	12.1
110°-120°	1069.6	12.5
120°-130°	857.0	10.0
130°-140°	673.1	7.9
140°-150°	515.8	6.0
150°-160°	370.9	4.3
160°-170°	226.8	2.7
170°-180°	76.4	0.9
0°-30°	993.4	11.6
0°-40°	1601.1	18.7
0°-60°	2728.4	31.9
0°-90°	3352.6	39.2
90°-120°	2482.6	29.0
90°-150°	4528.5	52.9
90°-180°	5203.0	60.8
0°-180°	8555.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1320	1306	1310	1306	1304	125
15°	1257	1241	1243	1240	1238	354
25°	1149	1129	1128	1121	1124	528
35°	987	974	974	964	968	617
45°	794	787	783	781	780	612
55°	588	587	588	580	579	525
65°	372	384	391	376	363	369
75°	172	188	197	184	167	184
85°	29	38	43	41	38	38
90°	2	7	12	15	15	5
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1324.3	1313.4	1316.9	1314.0	1307.6
5°	1320.4	1305.6	1309.9	1306.4	1304.1
7.5°	1306.9	1293.3	1296.5	1292.7	1291.4
10°	1294.9	1281.2	1284.4	1279.7	1277.4
12.5°	1280.9	1266.4	1269.6	1264.9	1263.5
15°	1256.6	1240.7	1242.6	1240.3	1238.0
17.5°	1228.3	1212.1	1212.5	1208.7	1208.3
20°	1207.8	1190.8	1189.3	1184.7	1186.9
22.5°	1185.6	1167.6	1166.1	1159.6	1162.8
25°	1148.7	1129.4	1127.8	1120.9	1124.3
27.5°	1106.0	1086.9	1086.9	1077.3	1080.9
30°	1074.4	1056.3	1058.2	1046.7	1051.2
32.5°	1041.0	1024.6	1025.7	1014.2	1018.7
35°	987.4	973.8	973.5	964.3	967.7
37.5°	932.6	920.6	918.7	913.4	914.3
40°	894.6	884.4	880.6	877.2	877.2
42.5°	854.6	845.3	841.7	839.1	838.2
45°	793.6	786.8	783.2	780.8	779.7
47.5°	733.3	726.9	723.8	722.1	721.0
50°	691.5	687.0	685.7	682.2	681.1
52.5°	649.7	647.0	645.8	641.4	640.2
55°	588.3	587.1	588.3	580.1	579.0
57.5°	524.2	526.0	529.8	518.8	516.1
60°	481.5	486.0	490.8	477.9	473.4
62.5°	437.9	445.1	451.8	437.0	430.7
65°	372.4	383.8	391.0	375.6	363.2
67.5°	309.3	323.4	332.1	315.5	301.4
70°	265.7	281.6	291.2	274.6	258.7
72.5°	227.6	245.3	253.2	237.5	221.6
75°	171.7	187.6	197.2	184.1	167.1
77.5°	121.8	136.8	144.8	133.3	119.3
80°	89.3	105.2	111.4	101.8	90.5
82.5°	63.4	76.5	80.8	75.0	67.3
85°	29.0	38.1	42.9	40.6	38.3
87.5°	7.8	15.1	20.0	20.7	21.6
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)