

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: P563438

Luminaire Tested: **SQ4-PP3-075U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563438
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

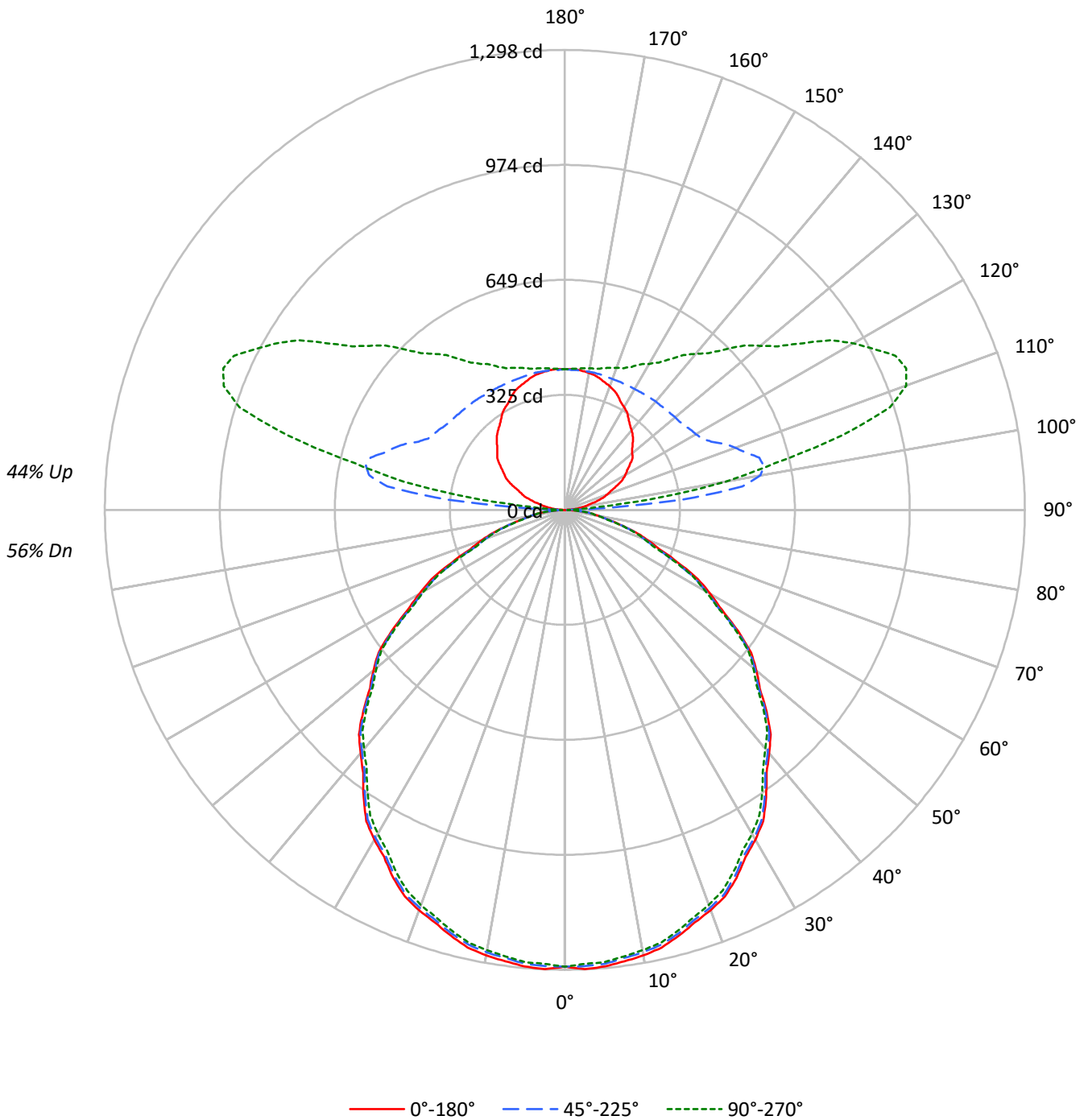
Lumens per Lamp: N/A
Luminaire Lumens: 5889.2 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	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	48	53	47	43	46	41	38	39	36	33	30
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	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11964	11878	11826
15°	11884	11819	11754
20°	11806	11739	11650
25°	11665	11585	11470
30°	11449	11389	11245
35°	11149	11074	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10122	10056	9960
55°	9598	9471	9397
60°	8737	8486	8446
65°	7698	7377	7353
70°	6647	6372	6372
75°	5721	5639	5557
80°	5042	5106	4984
85°	3949	4308	4308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	2.1
10°-20°	348.1	5.9
20°-30°	521.5	8.9
30°-40°	611.6	10.4
40°-50°	613.6	10.4
50°-60°	523.4	8.9
60°-70°	341.4	5.8
70°-80°	171.3	2.9
80°-90°	48.4	0.8
90°-100°	187.4	3.2
100°-110°	515.5	8.8
110°-120°	532.1	9.0
120°-130°	426.3	7.2
130°-140°	334.8	5.7
140°-150°	256.6	4.4
150°-160°	184.5	3.1
160°-170°	112.8	1.9
170°-180°	38.0	0.6
0°-30°	991.5	16.8
0°-40°	1603.2	27.2
0°-60°	2740.1	46.5
0°-90°	3301.2	56.1
90°-120°	1235.0	21.0
90°-150°	2252.7	38.3
90°-180°	2588.0	43.9
0°-180°	5889.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1294	1282	1286	1282	1282	123
15°	1244	1232	1237	1233	1231	351
25°	1146	1133	1138	1128	1127	527
35°	990	980	983	972	971	618
45°	805	799	799	791	791	620
55°	597	594	589	585	584	530
65°	353	346	338	336	337	352
75°	160	160	158	157	156	174
85°	37	41	41	41	41	44
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1297.5	1286.9	1289.4	1287.5	1282.2
5°	1293.9	1281.8	1286.0	1281.5	1281.5
7.5°	1285.1	1271.8	1276.1	1271.5	1271.3
10°	1277.0	1263.7	1267.9	1263.4	1262.3
12.5°	1265.2	1252.0	1257.1	1251.7	1251.4
15°	1244.2	1232.0	1237.4	1232.8	1230.6
17.5°	1220.5	1207.2	1213.7	1207.3	1206.5
20°	1202.4	1189.1	1195.6	1186.6	1186.6
22.5°	1180.7	1167.4	1174.8	1163.1	1163.1
25°	1145.9	1132.6	1138.0	1127.8	1126.7
27.5°	1104.5	1091.5	1097.1	1085.5	1085.3
30°	1074.7	1062.5	1069.0	1056.6	1055.5
32.5°	1042.1	1030.9	1035.6	1023.1	1022.0
35°	989.9	980.0	983.2	971.8	970.7
37.5°	935.0	924.8	928.5	918.7	918.3
40°	896.1	889.5	890.5	882.5	880.3
42.5°	860.0	852.5	853.4	845.5	845.1
45°	804.6	799.1	799.0	791.0	791.0
47.5°	745.8	741.6	740.4	733.9	733.6
50°	705.2	701.8	700.6	695.0	693.9
52.5°	662.7	661.1	657.2	652.5	652.3
55°	596.7	594.5	588.8	585.3	584.2
57.5°	525.0	520.6	514.2	509.2	510.1
60°	473.5	469.1	459.9	457.7	457.7
62.5°	423.8	418.5	409.3	406.2	408.0
65°	352.6	346.0	337.9	335.7	336.8
67.5°	287.9	282.0	273.2	273.2	272.3
70°	246.4	243.0	236.2	236.2	236.2
72.5°	209.3	207.7	202.7	202.7	201.8
75°	160.5	160.5	158.2	157.1	155.9
77.5°	120.2	120.7	119.6	118.4	116.4
80°	94.9	97.1	96.1	94.9	93.8
82.5°	71.4	73.6	73.5	71.4	71.2
85°	37.3	40.6	40.7	40.7	40.7
87.5°	10.1	14.1	15.6	16.0	16.9
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)