

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: P564282

Luminaire Tested: **SQ4-PR1-100U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564282
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

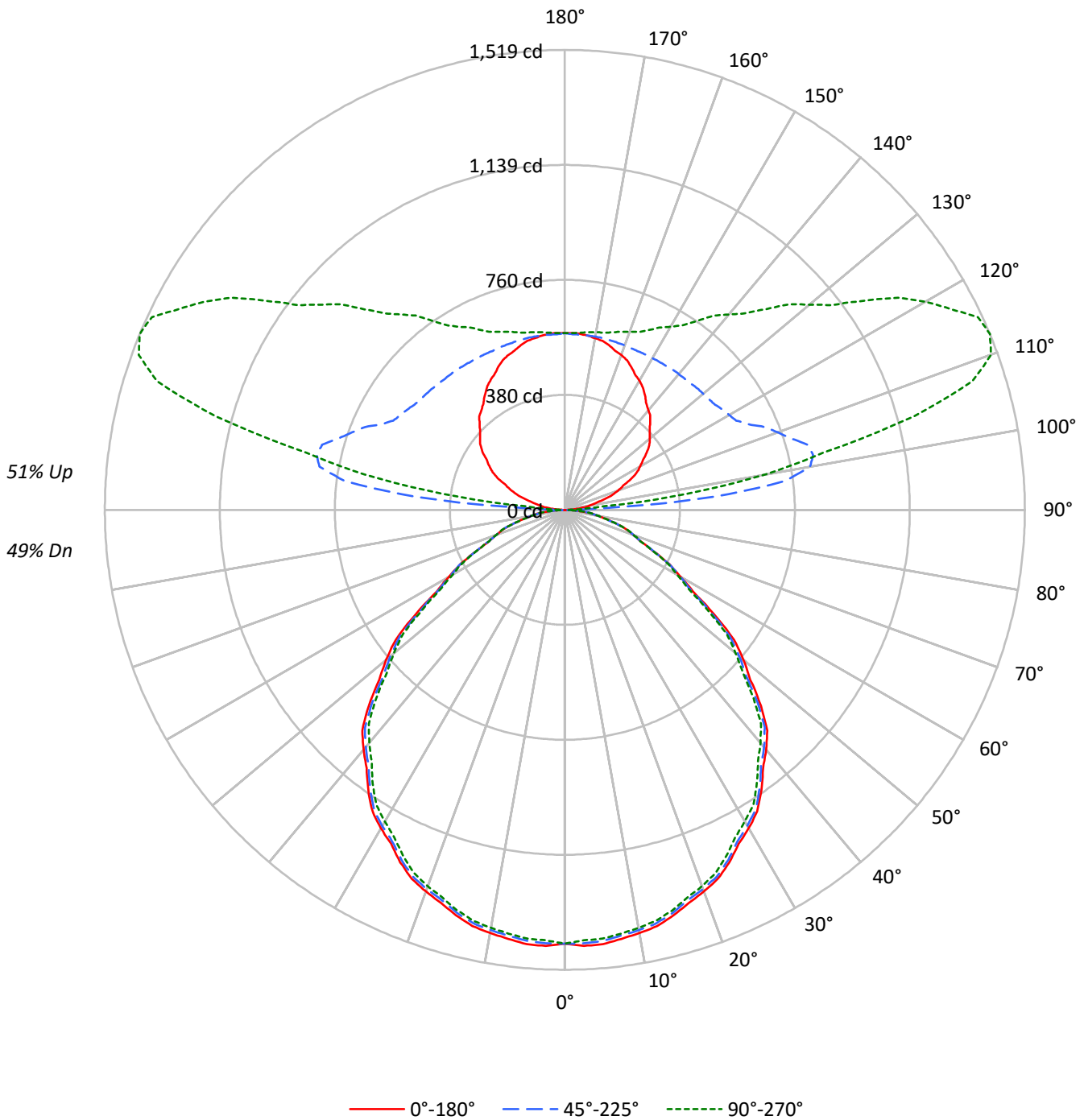
Lumens per Lamp: N/A
Luminaire Lumens: 7374.1 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13220	13220	13220
5°	13339	13236	13168
10°	13297	13204	13135
15°	13239	13156	13085
20°	13171	13087	12990
25°	13079	12991	12840
30°	12938	12846	12662
35°	12746	12636	12455
40°	12456	12322	12099
45°	11948	11739	11498
50°	11054	10788	10576
55°	9648	9429	9231
60°	8130	8062	7903
65°	7032	7060	7006
70°	6458	6493	6493
75°	6203	6203	6249
80°	5834	5903	5834
85°	4700	5229	5229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.8
10°-20°	387.7	5.3
20°-30°	584.7	7.9
30°-40°	696.7	9.4
40°-50°	686.9	9.3
50°-60°	525.0	7.1
60°-70°	324.9	4.4
70°-80°	184.5	2.5
80°-90°	57.3	0.8
90°-100°	273.2	3.7
100°-110°	754.3	10.2
110°-120°	777.9	10.5
120°-130°	625.1	8.5
130°-140°	491.3	6.7
140°-150°	376.8	5.1
150°-160°	270.8	3.7
160°-170°	165.6	2.2
170°-180°	55.8	0.8
0°-30°	1107.9	15.0
0°-40°	1804.6	24.5
0°-60°	3016.5	40.9
0°-90°	3583.2	48.6
90°-120°	1805.5	24.5
90°-150°	3298.7	44.7
90°-180°	3791.0	51.4
0°-180°	7374.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1440	1425	1429	1424	1422	137
15°	1386	1372	1377	1372	1370	391
25°	1285	1269	1276	1262	1261	591
35°	1132	1118	1122	1107	1106	706
45°	916	904	900	884	881	702
55°	600	590	586	576	574	537
65°	322	320	323	321	321	326
75°	174	174	174	175	175	184
85°	44	47	49	49	49	52
90°	2	4	8	8	9	5
95°	40	148	496	204	133	43
105°	134	207	830	1267	1193	143
115°	241	291	668	1323	1505	237
125°	330	376	606	1025	1203	294
135°	398	441	589	830	936	308
145°	461	493	582	707	761	289
155°	520	537	577	634	654	240
165°	563	570	580	602	607	159
175°	584	584	581	589	587	55
180°	584	584	584	584	584	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.9	1432.9	1432.9	1432.9	1432.9
2.5°	1441.7	1429.2	1432.9	1429.7	1423.0
5°	1440.3	1424.6	1429.2	1424.2	1421.8
7.5°	1429.2	1413.7	1418.3	1413.3	1411.9
10°	1419.3	1404.8	1409.4	1404.4	1402.0
12.5°	1408.4	1393.0	1398.6	1392.6	1390.2
15°	1386.0	1371.5	1377.3	1372.3	1369.9
17.5°	1361.3	1345.8	1351.7	1345.9	1342.8
20°	1341.5	1327.1	1332.9	1324.2	1323.0
22.5°	1319.8	1305.3	1311.2	1299.6	1299.3
25°	1284.8	1269.1	1276.1	1262.5	1261.3
27.5°	1243.0	1228.6	1234.4	1220.6	1219.1
30°	1214.4	1199.9	1205.8	1190.9	1188.5
32.5°	1181.8	1168.3	1173.2	1158.4	1156.9
35°	1131.7	1118.5	1121.9	1107.0	1105.8
37.5°	1074.7	1062.6	1064.6	1048.3	1047.1
40°	1034.2	1022.2	1023.1	1005.8	1004.6
42.5°	989.8	977.7	976.7	959.4	958.2
45°	915.7	903.7	899.7	883.6	881.2
47.5°	831.3	819.3	811.8	798.7	797.0
50°	770.1	758.0	751.6	740.4	736.8
52.5°	704.0	691.9	686.4	676.2	672.6
55°	599.8	590.1	586.2	576.3	573.9
57.5°	500.8	494.3	493.2	483.5	482.6
60°	440.6	437.0	436.9	428.3	428.3
62.5°	389.3	386.6	388.5	382.8	381.8
65°	322.1	319.7	323.4	320.9	320.9
67.5°	269.0	269.0	271.3	270.3	270.3
70°	239.4	239.4	240.7	240.7	240.7
72.5°	212.8	211.8	215.0	215.0	214.0
75°	174.0	174.0	174.0	175.3	175.3
77.5°	135.5	135.8	136.7	136.5	135.5
80°	109.8	111.0	111.1	109.8	109.8
82.5°	84.2	85.4	85.4	85.1	84.2
85°	44.4	46.8	49.4	49.4	49.4
87.5°	13.2	17.4	21.2	21.4	20.6
90°	1.9	3.7	7.5	8.4	9.3
92.5°	16.8	69.7	124.7	45.5	35.5
95°	40.1	147.8	495.7	203.8	132.6
97.5°	66.5	165.6	734.3	565.3	409.4
100°	85.9	176.2	822.4	828.2	673.1
102.5°	104.6	188.3	839.6	1023.3	876.2
105°	134.4	207.4	829.9	1267.0	1193.0
107.5°	166.2	231.2	783.6	1384.5	1411.5
110°	188.6	247.0	747.8	1409.7	1497.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.7	265.0	714.1	1389.8	1519.0
115°	240.8	291.1	668.4	1323.2	1504.8
117.5°	268.9	318.9	638.3	1229.5	1436.1
120°	287.5	336.8	626.4	1166.0	1374.1
122.5°	305.4	352.5	616.7	1106.8	1303.9
125°	330.5	376.1	605.9	1025.3	1203.3
127.5°	351.8	397.4	599.5	956.4	1110.0
130°	365.9	411.6	596.5	914.3	1053.9
132.5°	379.4	422.8	593.5	878.9	1005.4
135°	397.7	440.6	589.1	830.4	936.3
137.5°	418.2	457.3	586.8	789.8	880.1
140°	429.4	467.8	585.3	762.6	842.0
142.5°	442.1	477.5	583.8	738.5	808.4
145°	461.2	493.1	581.6	707.0	760.8
147.5°	479.5	507.4	579.5	680.4	722.2
150°	492.9	515.7	578.8	664.5	698.3
152.5°	503.4	524.7	578.0	650.9	678.9
155°	520.0	537.3	576.9	634.3	654.4
157.5°	535.3	548.6	577.1	622.2	635.9
160°	544.2	556.1	577.9	615.4	625.5
162.5°	551.7	562.1	578.6	609.4	617.2
165°	562.9	570.2	579.7	602.2	606.8
167.5°	571.5	575.9	580.7	597.9	599.3
170°	576.0	579.6	580.7	595.6	595.6
172.5°	579.7	581.9	580.7	592.6	591.9
175°	583.5	584.4	580.7	589.0	587.2
177.5°	584.9	584.2	580.5	585.7	584.2
180°	583.5	583.5	583.5	583.5	583.5

(END OF REPORT)