

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: P564243

Luminaire Tested: **SQ4-PR1-100U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564243
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-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

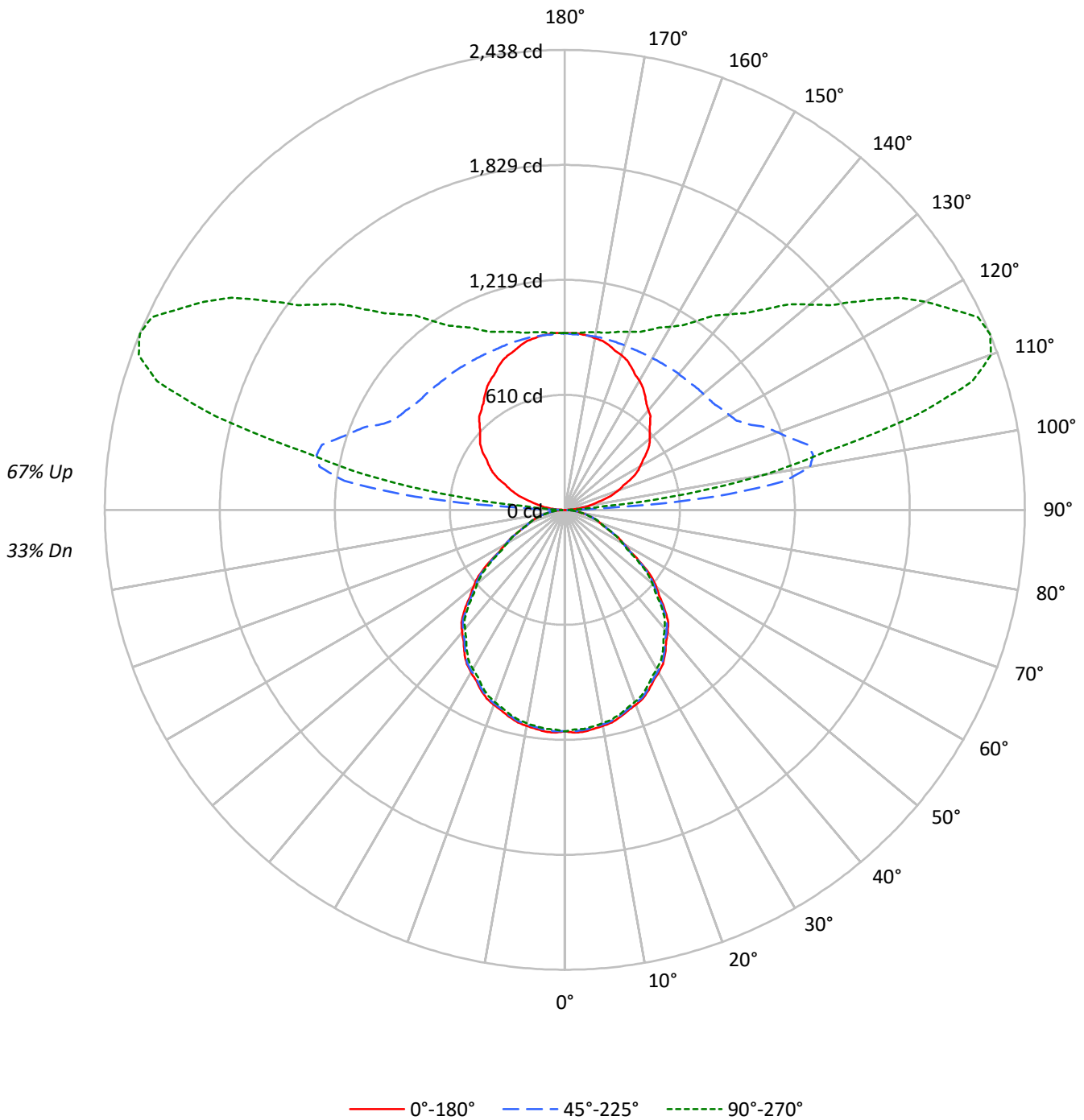
Lumens per Lamp: N/A
Luminaire Lumens: 9023.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7146	7099	7016
30°	7070	7019	6918
35°	6965	6904	6806
40°	6806	6733	6611
45°	6529	6414	6283
50°	6040	5894	5779
55°	5272	5153	5044
60°	4442	4405	4318
65°	3842	3857	3828
70°	3528	3548	3548
75°	3389	3389	3413
80°	3188	3223	3188
85°	2569	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.2
10°-20°	317.8	3.5
20°-30°	479.3	5.3
30°-40°	571.1	6.3
40°-50°	563.0	6.2
50°-60°	430.3	4.8
60°-70°	266.3	3.0
70°-80°	151.2	1.7
80°-90°	48.0	0.5
90°-100°	438.6	4.9
100°-110°	1210.8	13.4
110°-120°	1248.7	13.8
120°-130°	1003.5	11.1
130°-140°	788.6	8.7
140°-150°	604.8	6.7
150°-160°	434.7	4.8
160°-170°	265.8	2.9
170°-180°	89.6	1.0
0°-30°	908.1	10.1
0°-40°	1479.1	16.4
0°-60°	2472.4	27.4
0°-90°	2937.9	32.6
90°-120°	2898.1	32.1
90°-150°	5295.0	58.7
90°-180°	6085.0	67.4
0°-180°	9023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1180	1168	1171	1167	1165	112
15°	1136	1124	1129	1125	1123	321
25°	1053	1040	1046	1035	1034	485
35°	928	917	920	907	906	579
45°	751	741	737	724	722	575
55°	492	484	480	472	470	440
65°	264	262	265	263	263	267
75°	143	143	143	144	144	151
85°	36	38	40	40	40	42
90°	3	6	12	14	15	6
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1181.7	1171.4	1174.4	1171.9	1166.3
5°	1180.5	1167.6	1171.4	1167.3	1165.3
7.5°	1171.4	1158.7	1162.5	1158.4	1157.2
10°	1163.3	1151.4	1155.2	1151.1	1149.1
12.5°	1154.4	1141.7	1146.3	1141.4	1139.4
15°	1136.0	1124.1	1128.9	1124.8	1122.8
17.5°	1115.8	1103.1	1107.9	1103.2	1100.6
20°	1099.6	1087.7	1092.5	1085.4	1084.4
22.5°	1081.8	1069.9	1074.7	1065.2	1065.0
25°	1053.0	1040.2	1046.0	1034.8	1033.8
27.5°	1018.9	1007.0	1011.8	1000.4	999.2
30°	995.4	983.5	988.3	976.1	974.1
32.5°	968.7	957.6	961.6	949.4	948.2
35°	927.6	916.7	919.5	907.4	906.4
37.5°	880.9	871.0	872.6	859.2	858.2
40°	847.7	837.8	838.6	824.4	823.4
42.5°	811.3	801.4	800.6	786.4	785.4
45°	750.6	740.7	737.4	724.2	722.3
47.5°	681.4	671.5	665.4	654.7	653.3
50°	631.2	621.3	616.0	606.9	603.9
52.5°	577.0	567.1	562.6	554.3	551.3
55°	491.6	483.7	480.5	472.4	470.4
57.5°	410.5	405.2	404.2	396.3	395.5
60°	361.1	358.2	358.1	351.0	351.0
62.5°	319.1	316.9	318.4	313.8	313.0
65°	264.0	262.0	265.0	263.0	263.0
67.5°	220.5	220.5	222.3	221.5	221.5
70°	196.2	196.2	197.3	197.3	197.3
72.5°	174.4	173.6	176.2	176.2	175.4
75°	142.6	142.6	142.6	143.6	143.6
77.5°	111.1	111.3	112.1	111.9	111.1
80°	90.0	91.0	91.0	90.0	90.0
82.5°	69.0	70.0	70.0	69.8	69.0
85°	36.4	38.4	40.5	40.5	40.5
87.5°	11.1	14.9	18.6	18.9	18.4
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)