

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: P564079

Luminaire Tested: **SQ4-PR1-075U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564079
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

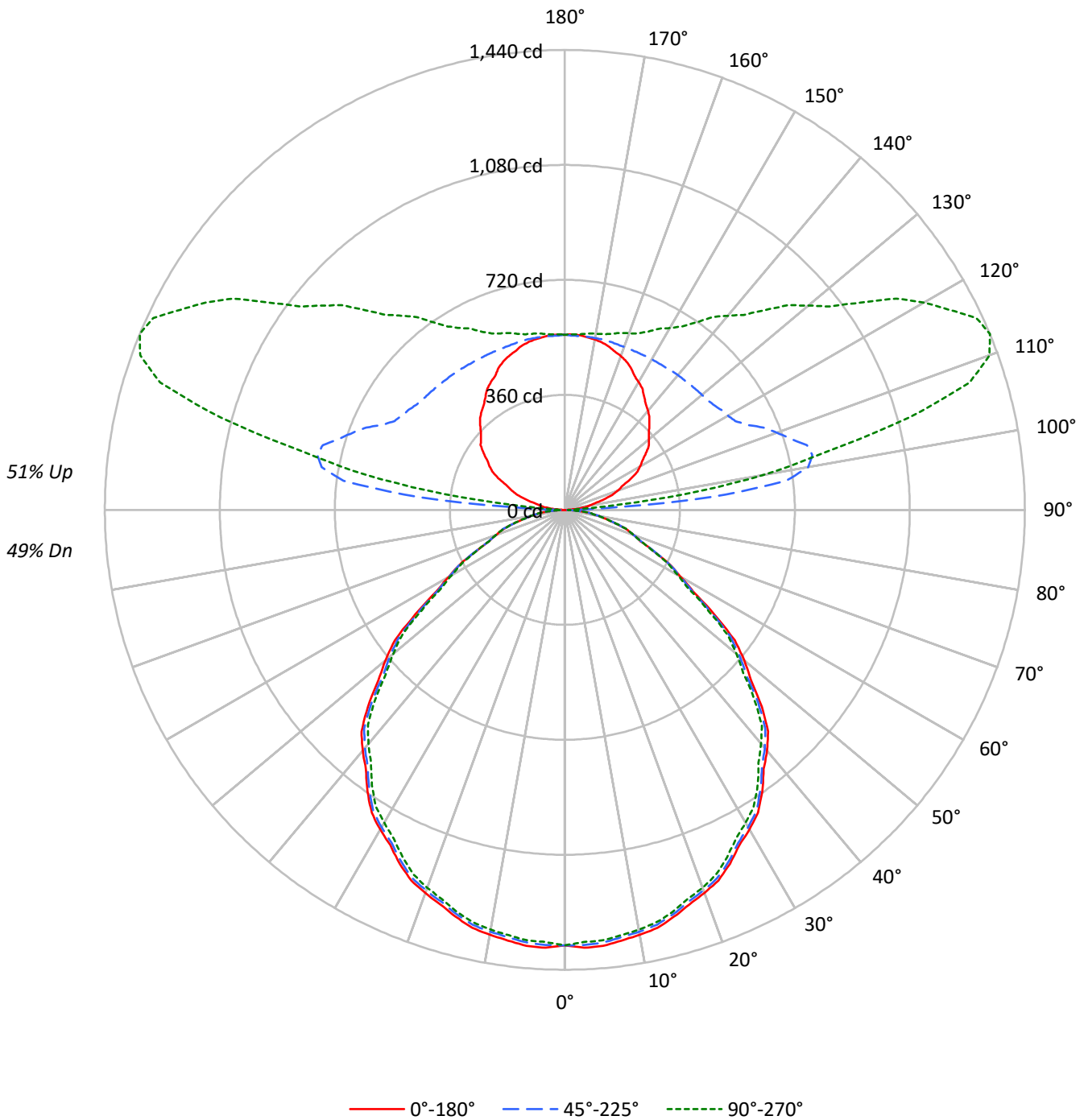
Lumens per Lamp: N/A
Luminaire Lumens: 6984.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	71	68	60	59	57	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	44	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	36	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	35	30	27	29	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	21	18
8	54	42	35	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16
9	51	39	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	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8464	8398	8354
10°	8437	8378	8334
15°	8400	8348	8302
20°	8357	8304	8242
25°	8299	8242	8147
30°	8209	8151	8033
35°	8088	8017	7902
40°	7903	7818	7677
45°	7582	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5158	5115	5014
65°	4462	4478	4445
70°	4098	4118	4118
75°	3935	3935	3964
80°	3702	3744	3702
85°	2985	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.8
10°-20°	369.0	5.3
20°-30°	556.5	8.0
30°-40°	663.1	9.5
40°-50°	653.8	9.4
50°-60°	499.6	7.2
60°-70°	309.2	4.4
70°-80°	175.6	2.5
80°-90°	54.8	0.8
90°-100°	258.7	3.7
100°-110°	711.8	10.2
110°-120°	734.7	10.5
120°-130°	588.6	8.4
130°-140°	462.3	6.6
140°-150°	354.3	5.1
150°-160°	254.7	3.6
160°-170°	155.8	2.2
170°-180°	52.5	0.8
0°-30°	1054.4	15.1
0°-40°	1717.5	24.6
0°-60°	2870.9	41.1
0°-90°	3410.5	48.8
90°-120°	1705.2	24.4
90°-150°	3110.5	44.5
90°-180°	3573.0	51.2
0°-180°	6984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1371	1356	1360	1355	1353	130
15°	1319	1305	1311	1306	1304	372
25°	1223	1208	1214	1202	1200	563
35°	1077	1064	1068	1054	1052	672
45°	872	860	856	841	839	668
55°	571	562	558	548	546	512
65°	307	304	308	305	305	311
75°	166	166	166	167	167	175
85°	42	45	47	47	47	49
90°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1372.2	1360.2	1363.7	1360.8	1354.3
5°	1370.8	1355.8	1360.2	1355.4	1353.1
7.5°	1360.2	1345.5	1349.9	1345.1	1343.7
10°	1350.8	1337.0	1341.4	1336.6	1334.4
12.5°	1340.5	1325.8	1331.1	1325.4	1323.1
15°	1319.1	1305.3	1310.9	1306.1	1303.8
17.5°	1295.6	1280.9	1286.4	1281.0	1278.0
20°	1276.8	1263.0	1268.6	1260.3	1259.2
22.5°	1256.1	1242.3	1247.9	1236.9	1236.6
25°	1222.8	1207.8	1214.5	1201.6	1200.4
27.5°	1183.1	1169.3	1174.8	1161.7	1160.3
30°	1155.8	1142.0	1147.6	1133.4	1131.1
32.5°	1124.8	1111.9	1116.6	1102.5	1101.1
35°	1077.1	1064.5	1067.7	1053.6	1052.4
37.5°	1022.8	1011.4	1013.2	997.7	996.5
40°	984.3	972.8	973.7	957.3	956.1
42.5°	942.0	930.5	929.6	913.1	912.0
45°	871.6	860.1	856.3	841.0	838.7
47.5°	791.2	779.7	772.7	760.2	758.6
50°	733.0	721.5	715.3	704.7	701.2
52.5°	670.0	658.5	653.3	643.6	640.2
55°	570.9	561.7	557.9	548.5	546.2
57.5°	476.7	470.5	469.4	460.2	459.3
60°	419.3	415.9	415.8	407.6	407.6
62.5°	370.5	367.9	369.8	364.3	363.4
65°	306.6	304.3	307.7	305.4	305.4
67.5°	256.1	256.1	258.2	257.2	257.2
70°	227.9	227.9	229.0	229.0	229.0
72.5°	202.5	201.6	204.6	204.6	203.7
75°	165.6	165.6	165.6	166.8	166.8
77.5°	129.0	129.2	130.1	129.9	129.0
80°	104.5	105.7	105.7	104.5	104.5
82.5°	80.1	81.3	81.3	81.0	80.1
85°	42.3	44.6	47.0	47.0	47.0
87.5°	12.4	16.8	20.4	20.9	20.0
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)