

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: P564632

Luminaire Tested: **SQ4-PW1-050U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564632
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

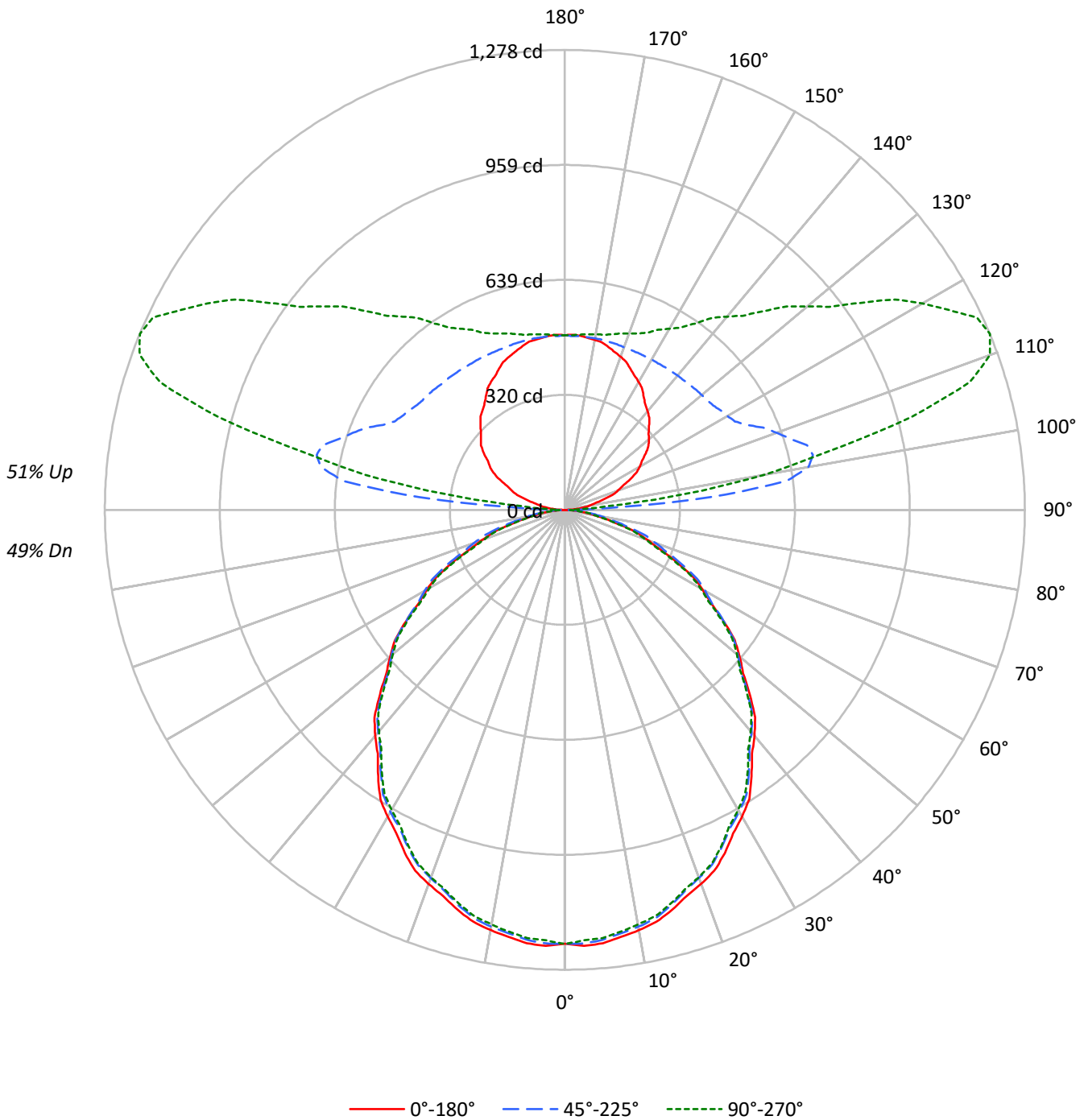
Lumens per Lamp: N/A
Luminaire Lumens: 6240.5 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49	49	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42	42	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35	35	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30	30	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26	26	26
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22	22	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19	19	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17	17	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15	15	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16	14	14	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13	13	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5128
35°	5093	5021	4991
40°	4934	4857	4837
45°	4742	4680	4659
50°	4545	4507	4476
55°	4333	4333	4264
60°	4069	4147	4000
65°	3723	3909	3631
70°	3282	3597	3197
75°	2804	3219	2727
80°	2173	2710	2202
85°	1408	2080	1858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	1.8
10°-20°	320.6	5.1
20°-30°	475.6	7.6
30°-40°	556.5	8.9
40°-50°	554.0	8.9
50°-60°	478.4	7.7
60°-70°	344.4	5.5
70°-80°	180.6	2.9
80°-90°	46.6	0.7
90°-100°	233.1	3.7
100°-110°	633.2	10.1
110°-120°	651.0	10.4
120°-130°	520.5	8.3
130°-140°	409.0	6.6
140°-150°	313.6	5.0
150°-160°	225.5	3.6
160°-170°	137.9	2.2
170°-180°	46.5	0.7
0°-30°	909.8	14.6
0°-40°	1466.3	23.5
0°-60°	2498.8	40.0
0°-90°	3070.4	49.2
90°-120°	1517.2	24.3
90°-150°	2760.3	44.2
90°-180°	3170.0	50.8
0°-180°	6240.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1209	1196	1200	1196	1194	115
15°	1151	1136	1138	1136	1134	324
25°	1052	1034	1033	1026	1030	484
35°	904	892	892	883	886	565
45°	727	721	717	715	714	561
55°	539	538	539	531	530	481
65°	341	352	358	344	333	338
75°	157	172	181	169	153	169
85°	27	35	39	37	35	35
90°	2	6	11	14	14	3
95°	34	128	406	177	119	36
105°	112	175	696	1060	998	119
115°	200	243	557	1109	1263	197
125°	275	313	504	850	1002	245
135°	331	368	490	692	781	256
145°	382	410	484	588	632	240
155°	432	448	481	528	543	199
165°	468	474	482	503	504	132
175°	486	487	484	490	489	46
180°	486	486	486	486	486	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.0	1206.0	1206.0	1206.0	1206.0
2.5°	1212.8	1202.9	1206.0	1203.4	1197.5
5°	1209.2	1195.7	1199.7	1196.4	1194.4
7.5°	1196.9	1184.4	1187.3	1183.9	1182.7
10°	1185.9	1173.4	1176.3	1172.0	1169.9
12.5°	1173.1	1159.8	1162.7	1158.4	1157.2
15°	1150.8	1136.2	1138.0	1135.9	1133.8
17.5°	1124.9	1110.1	1110.4	1107.0	1106.6
20°	1106.2	1090.6	1089.2	1085.0	1087.0
22.5°	1085.8	1069.3	1067.9	1062.0	1064.9
25°	1052.0	1034.3	1032.8	1026.5	1029.7
27.5°	1012.9	995.4	995.4	986.6	989.9
30°	984.0	967.3	969.1	958.6	962.7
32.5°	953.4	938.4	939.3	928.8	933.0
35°	904.3	891.8	891.5	883.1	886.2
37.5°	854.1	843.1	841.4	836.5	837.3
40°	819.3	809.9	806.5	803.3	803.3
42.5°	782.7	774.2	770.8	768.5	767.6
45°	726.8	720.6	717.3	715.1	714.1
47.5°	671.6	665.7	662.8	661.3	660.3
50°	633.3	629.2	628.0	624.8	623.7
52.5°	595.1	592.6	591.4	587.4	586.3
55°	538.7	537.7	538.7	531.3	530.2
57.5°	480.1	481.7	485.2	475.1	472.6
60°	441.0	445.1	449.5	437.7	433.5
62.5°	401.0	407.7	413.8	400.3	394.4
65°	341.1	351.5	358.1	344.0	332.6
67.5°	283.3	296.2	304.1	288.9	276.1
70°	243.3	257.9	266.7	251.5	237.0
72.5°	208.5	224.7	231.9	217.5	203.0
75°	157.3	171.8	180.6	168.6	153.0
77.5°	111.6	125.3	132.6	122.1	109.2
80°	81.8	96.4	102.0	93.3	82.9
82.5°	58.0	70.1	74.0	68.7	61.6
85°	26.6	34.9	39.3	37.1	35.1
87.5°	7.1	13.8	18.3	19.0	19.8
90°	1.6	6.1	10.9	14.1	14.1
92.5°	14.1	63.8	110.8	47.6	40.3
95°	34.3	127.5	405.9	176.7	118.7
97.5°	56.8	140.8	622.3	484.1	340.0
100°	71.8	149.7	688.5	697.9	563.6
102.5°	86.8	158.5	706.0	863.1	744.7
105°	112.4	175.0	696.3	1060.2	997.6
107.5°	138.9	194.2	656.0	1161.9	1179.3
110°	157.7	208.1	626.0	1182.0	1256.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.9	221.8	596.1	1165.3	1278.0
115°	199.8	242.6	557.3	1108.8	1263.0
117.5°	224.2	265.1	532.7	1028.7	1202.4
120°	240.4	280.1	521.4	975.0	1147.5
122.5°	254.2	293.8	513.9	921.1	1087.5
125°	274.8	312.9	504.3	849.6	1002.3
127.5°	293.2	331.0	499.0	795.4	926.4
130°	304.4	341.1	496.5	761.4	878.9
132.5°	315.7	352.3	494.0	732.4	836.5
135°	331.0	367.6	490.2	692.1	780.6
137.5°	347.5	380.8	488.3	656.5	730.9
140°	357.5	389.6	487.1	633.8	701.0
142.5°	367.5	397.1	485.8	616.1	672.2
145°	382.5	410.0	484.0	588.0	632.3
147.5°	399.4	422.9	482.4	565.9	600.7
150°	410.6	430.4	482.4	553.3	580.8
152.5°	419.3	436.7	481.2	541.9	564.5
155°	432.4	447.7	480.8	528.0	543.3
157.5°	445.3	457.2	480.8	518.6	530.2
160°	452.7	463.4	480.8	512.3	521.4
162.5°	460.2	468.5	482.1	507.2	513.9
165°	468.4	474.5	482.4	502.7	504.3
167.5°	476.8	479.8	484.0	497.4	498.6
170°	479.3	482.3	484.0	494.9	494.9
172.5°	481.8	483.6	484.0	492.4	492.4
175°	485.5	487.1	484.0	490.2	488.7
177.5°	486.8	486.8	483.0	488.0	485.5
180°	485.5	485.5	485.5	485.5	485.5

(END OF REPORT)