

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: P563311

Luminaire Tested: **SQ4-PP3-050U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563311
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

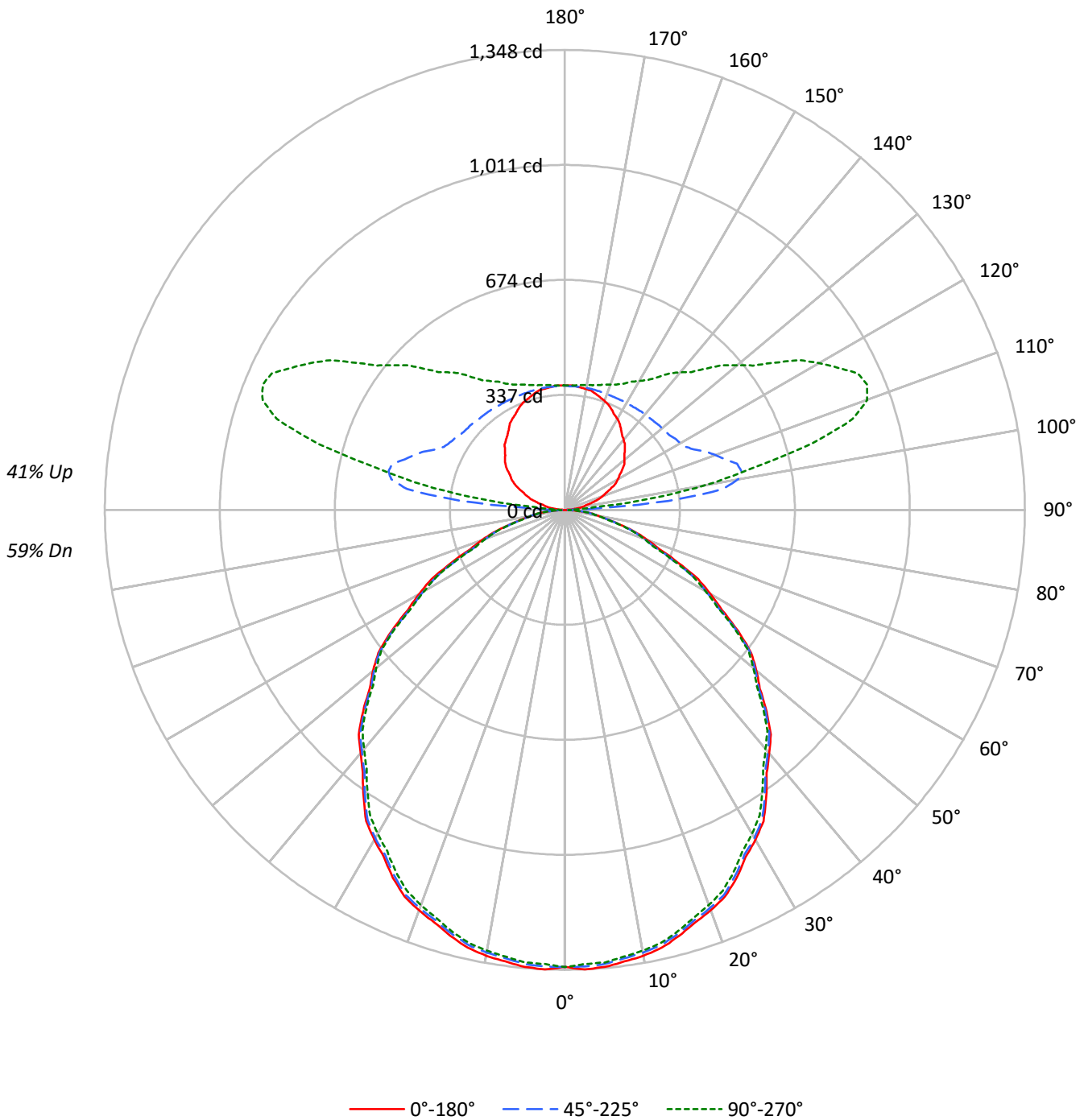
Lumens per Lamp: N/A
Luminaire Lumens: 5808.4 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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				
RC	80					70					50					30				
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	102	102	102	102	88	88	88	76	76	76	64	64	64	59		
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50		
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42		
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36		
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31		
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27		
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24		
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21		
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19		
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17		
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8192
15°	8233	8188	8143
20°	8179	8132	8071
25°	8082	8026	7946
30°	7932	7890	7790
35°	7724	7672	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6899
55°	6649	6561	6510
60°	6052	5880	5851
65°	5333	5110	5094
70°	4604	4413	4413
75°	3964	3907	3852
80°	3493	3535	3454
85°	2738	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	2.2
10°-20°	361.8	6.2
20°-30°	541.9	9.3
30°-40°	635.6	10.9
40°-50°	637.6	11.0
50°-60°	543.9	9.4
60°-70°	354.7	6.1
70°-80°	178.0	3.1
80°-90°	50.7	0.9
90°-100°	174.8	3.0
100°-110°	474.9	8.2
110°-120°	488.2	8.4
120°-130°	390.4	6.7
130°-140°	306.7	5.3
140°-150°	235.2	4.0
150°-160°	169.1	2.9
160°-170°	103.4	1.8
170°-180°	34.8	0.6
0°-30°	1030.4	17.7
0°-40°	1666.0	28.7
0°-60°	2847.5	49.0
0°-90°	3430.8	59.1
90°-120°	1137.9	19.6
90°-150°	2070.2	35.6
90°-180°	2378.0	40.9
0°-180°	5808.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1345	1332	1336	1332	1332	128
15°	1293	1280	1286	1281	1279	365
25°	1191	1177	1183	1172	1171	548
35°	1029	1018	1022	1010	1009	643
45°	836	830	830	822	822	644
55°	620	618	612	608	607	551
65°	366	360	351	349	350	366
75°	167	167	164	163	162	181
85°	39	42	42	42	42	46
90°	1	5	8	10	10	3
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.9	1339.9	1339.9	1339.9	1339.9
2.5°	1348.4	1337.3	1339.9	1337.9	1332.4
5°	1344.6	1332.0	1336.4	1331.7	1331.7
7.5°	1335.4	1321.7	1326.1	1321.4	1321.1
10°	1327.0	1313.2	1317.6	1312.9	1311.7
12.5°	1314.8	1301.0	1306.3	1300.7	1300.5
15°	1292.9	1280.3	1285.9	1281.1	1278.8
17.5°	1268.3	1254.5	1261.2	1254.6	1253.7
20°	1249.5	1235.7	1242.4	1233.0	1233.0
22.5°	1226.9	1213.2	1220.8	1208.6	1208.6
25°	1190.8	1177.0	1182.6	1172.0	1170.8
27.5°	1147.8	1134.2	1140.0	1128.1	1127.8
30°	1116.8	1104.2	1110.9	1098.0	1096.8
32.5°	1083.0	1071.3	1076.2	1063.2	1062.1
35°	1028.7	1018.4	1021.7	1009.9	1008.7
37.5°	971.6	961.1	964.8	954.7	954.3
40°	931.2	924.4	925.4	917.1	914.8
42.5°	893.7	885.9	886.9	878.6	878.2
45°	836.1	830.4	830.3	822.0	822.0
47.5°	775.1	770.7	769.4	762.6	762.4
50°	732.8	729.3	728.1	722.2	721.0
52.5°	688.6	687.0	683.0	678.1	677.8
55°	620.0	617.7	611.8	608.3	607.1
57.5°	545.6	541.0	534.3	529.2	530.1
60°	492.0	487.5	478.0	475.6	475.6
62.5°	440.4	434.9	425.3	422.1	423.9
65°	366.4	359.5	351.1	348.8	350.0
67.5°	299.2	293.0	284.0	283.9	283.0
70°	256.0	252.6	245.4	245.4	245.4
72.5°	217.5	215.9	210.7	210.7	209.7
75°	166.8	166.8	164.4	163.2	162.1
77.5°	124.9	125.4	124.2	123.0	121.0
80°	98.6	100.9	99.8	98.6	97.5
82.5°	74.2	76.5	76.3	74.2	74.0
85°	38.8	42.2	42.3	42.3	42.3
87.5°	10.6	14.9	16.7	17.2	18.1
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)