

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: P563983

Luminaire Tested: **SQ4-PR1-050U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563983
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

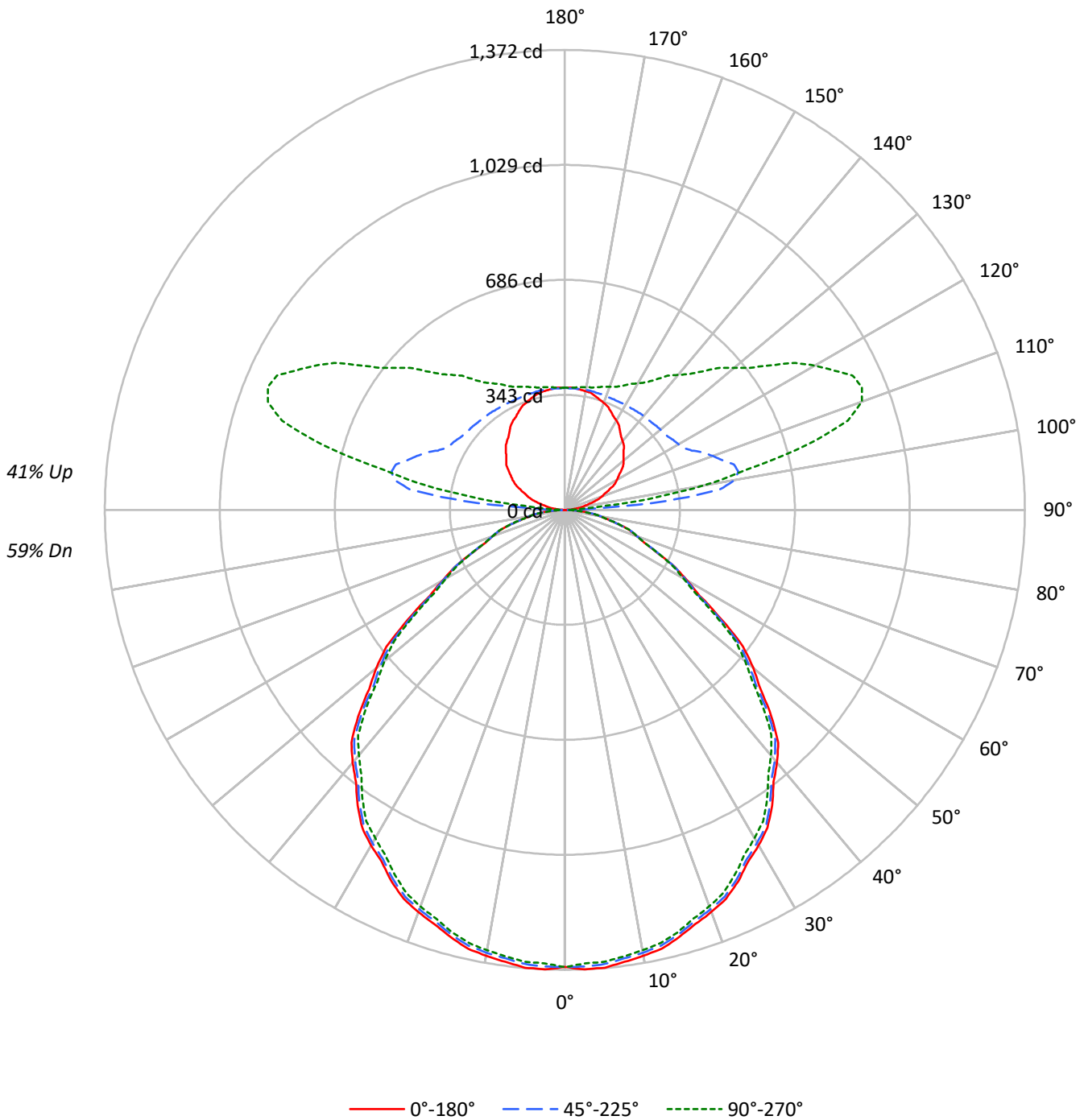
Lumens per Lamp: N/A
Luminaire Lumens: 5788.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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				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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

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	2.2
10°-20°	369.0	6.4
20°-30°	556.5	9.6
30°-40°	663.1	11.5
40°-50°	653.8	11.3
50°-60°	499.6	8.6
60°-70°	309.2	5.3
70°-80°	175.6	3.0
80°-90°	54.8	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	4.1
150°-160°	169.1	2.9
160°-170°	103.4	1.8
170°-180°	34.8	0.6
0°-30°	1054.4	18.2
0°-40°	1717.5	29.7
0°-60°	2870.9	49.6
0°-90°	3410.5	58.9
90°-120°	1137.9	19.7
90°-150°	2070.2	35.8
90°-180°	2378.0	41.1
0°-180°	5788.2	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	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°	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°	12.5	16.8	20.4	20.9	20.0
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)