

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: P523738

Luminaire Tested: **SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523738
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6275.4 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

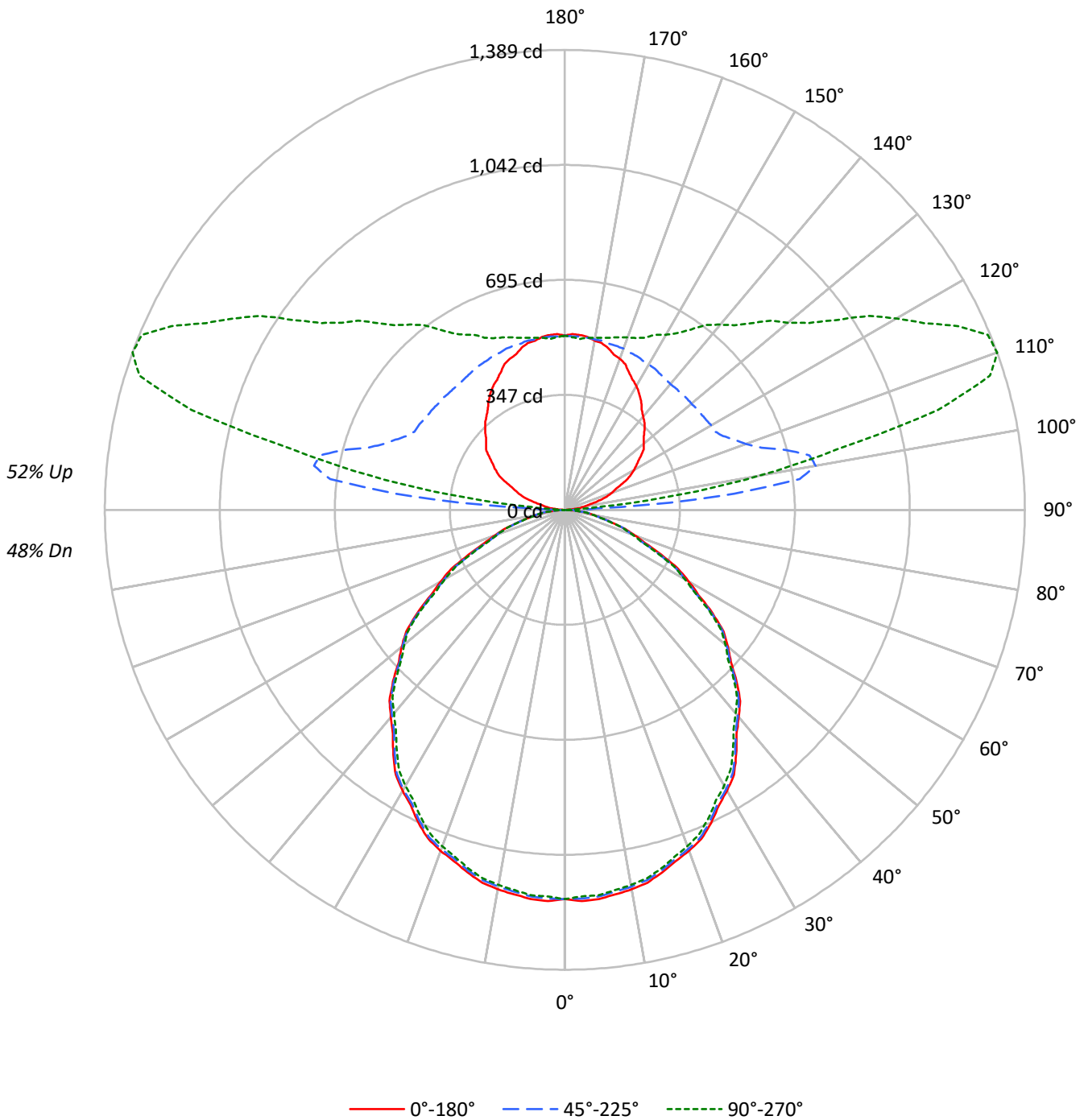
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39				34	
3	81	72	65	59	74	66	60	55	56	52	48	47	43	40	38	36	33				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22				19	
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20				17	
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10844	10844	10844
5°	10923	10856	10817
10°	10904	10827	10778
15°	10833	10773	10714
20°	10760	10700	10619
25°	10632	10559	10454
30°	10435	10381	10249
35°	10163	10093	9966
40°	9837	9776	9664
45°	9569	9501	9407
50°	9225	9166	9077
55°	8749	8631	8565
60°	7964	7735	7698
65°	7017	6724	6700
70°	6056	5808	5808
75°	5215	5140	5065
80°	4596	4654	4543
85°	3599	3927	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.8
10°-20°	317.3	5.1
20°-30°	475.3	7.6
30°-40°	557.5	8.9
40°-50°	559.2	8.9
50°-60°	477.1	7.6
60°-70°	311.1	5.0
70°-80°	156.1	2.5
80°-90°	43.2	0.7
90°-100°	239.7	3.8
100°-110°	682.0	10.9
110°-120°	653.4	10.4
120°-130°	517.2	8.2
130°-140°	415.1	6.6
140°-150°	325.0	5.2
150°-160°	237.8	3.8
160°-170°	147.3	2.3
170°-180°	50.0	0.8
0°-30°	903.7	14.4
0°-40°	1461.2	23.3
0°-60°	2497.6	39.8
0°-90°	3008.0	47.9
90°-120°	1575.1	25.1
90°-150°	2832.3	45.1
90°-180°	3267.0	52.1
0°-180°	6275.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1179	1168	1172	1168	1168	112
15°	1134	1123	1128	1124	1122	320
25°	1044	1032	1037	1028	1027	480
35°	902	893	896	886	885	564
45°	733	728	728	721	721	565
55°	544	542	537	534	532	483
65°	321	315	308	306	307	321
75°	146	146	144	143	142	159
85°	34	37	37	37	37	40
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1182.7	1173.0	1175.3	1173.5	1168.7
5°	1179.4	1168.3	1172.2	1168.0	1168.0
7.5°	1171.3	1159.3	1163.1	1159.0	1158.8
10°	1163.9	1151.8	1155.7	1151.5	1150.5
12.5°	1153.2	1141.1	1145.8	1140.8	1140.6
15°	1134.1	1123.0	1127.9	1123.7	1121.7
17.5°	1112.4	1100.3	1106.2	1100.5	1099.6
20°	1095.9	1083.9	1089.8	1081.5	1081.5
22.5°	1076.2	1064.1	1070.8	1060.1	1060.1
25°	1044.4	1032.4	1037.2	1027.9	1026.9
27.5°	1006.7	994.9	999.9	989.4	989.2
30°	979.5	968.5	974.4	963.0	962.0
32.5°	949.9	939.6	943.9	932.6	931.5
35°	902.3	893.2	896.1	885.8	884.8
37.5°	852.2	843.0	846.3	837.4	837.0
40°	816.8	810.8	811.7	804.4	802.4
42.5°	783.8	777.0	777.9	770.7	770.2
45°	733.4	728.3	728.2	721.0	721.0
47.5°	679.8	676.0	674.9	668.9	668.7
50°	642.7	639.7	638.6	633.4	632.4
52.5°	604.0	602.6	599.1	594.7	594.5
55°	543.9	541.8	536.6	533.5	532.5
57.5°	478.5	474.5	468.7	464.1	465.0
60°	431.6	427.5	419.2	417.2	417.2
62.5°	386.3	381.4	373.1	370.2	371.8
65°	321.4	315.3	308.0	305.9	306.9
67.5°	262.4	257.0	249.1	249.0	248.2
70°	224.5	221.5	215.3	215.3	215.3
72.5°	190.8	189.3	184.8	184.8	184.0
75°	146.3	146.3	144.2	143.1	142.1
77.5°	109.6	110.0	109.0	107.9	106.1
80°	86.5	88.5	87.6	86.5	85.5
82.5°	65.1	67.1	67.0	65.1	64.9
85°	34.0	37.0	37.1	37.1	37.1
87.5°	9.1	12.3	13.2	13.2	14.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)