

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: P523632

Luminaire Tested: **SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523632
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-PP3-025U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4730.8 lumens
Efficiency: N/A
Efficacy: 103.3 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: Semi-Direct

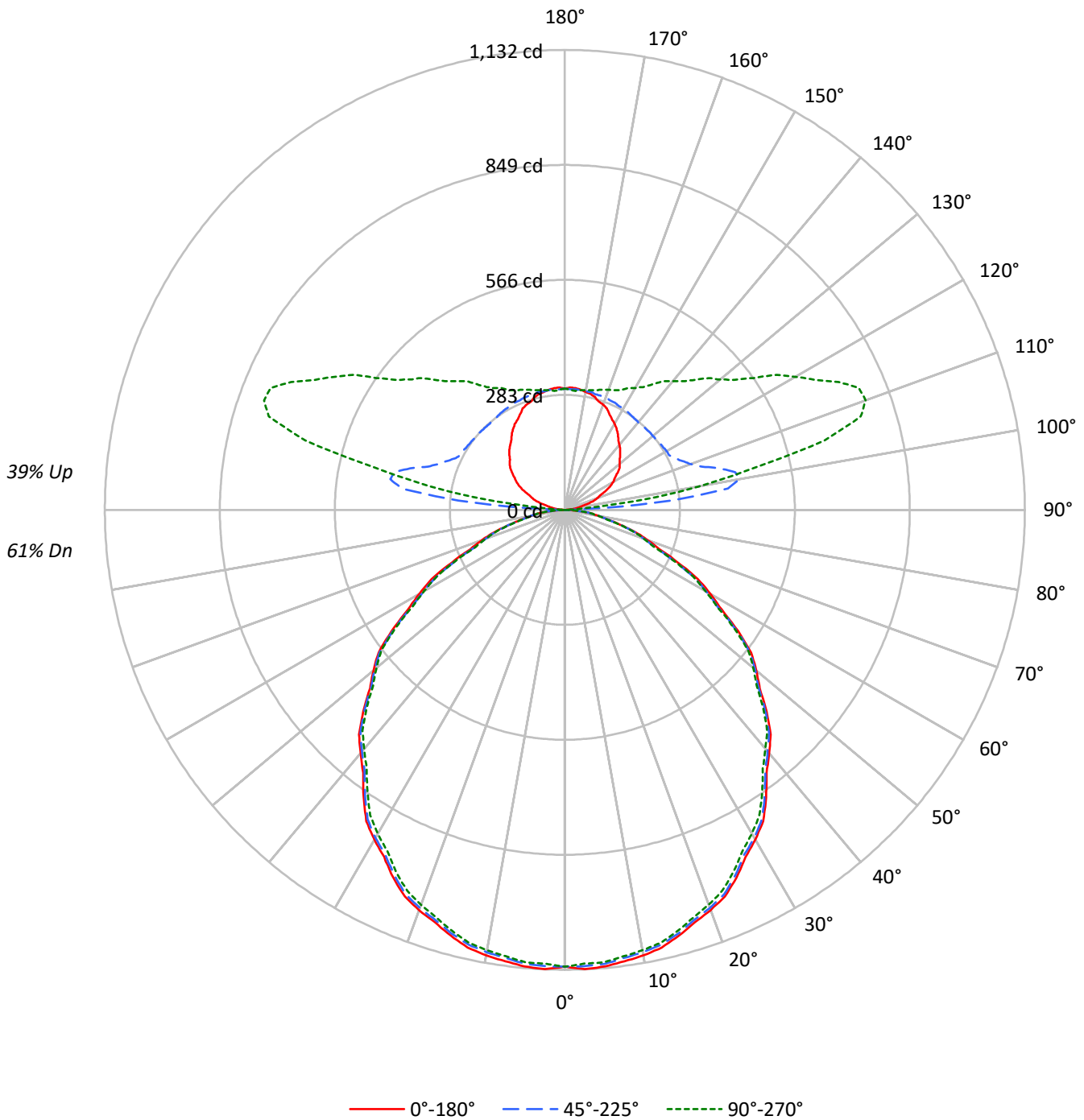
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61		
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52		
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44		
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37		
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35	32		
5	71	59	51	45	66	55	48	42	49	43	39	43	38	35	37	34	31	28		
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	25		
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22		
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	25	22	19		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10374	10374	10374
5°	10450	10387	10350
10°	10433	10359	10313
15°	10364	10307	10251
20°	10295	10237	10159
25°	10173	10103	10002
30°	9984	9931	9805
35°	9723	9656	9534
40°	9412	9352	9246
45°	9154	9090	9000
50°	8826	8770	8685
55°	8369	8258	8196
60°	7619	7401	7364
65°	6713	6434	6412
70°	5794	5557	5557
75°	4987	4919	4848
80°	4399	4452	4346
85°	3440	3758	3758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	2.2
10°-20°	303.6	6.4
20°-30°	454.7	9.6
30°-40°	533.4	11.3
40°-50°	535.0	11.3
50°-60°	456.4	9.6
60°-70°	297.7	6.3
70°-80°	149.4	3.2
80°-90°	41.3	0.9
90°-100°	135.9	2.9
100°-110°	386.8	8.2
110°-120°	370.6	7.8
120°-130°	293.3	6.2
130°-140°	235.4	5.0
140°-150°	184.3	3.9
150°-160°	134.8	2.9
160°-170°	83.5	1.8
170°-180°	28.3	0.6
0°-30°	864.6	18.3
0°-40°	1398.0	29.6
0°-60°	2389.5	50.5
0°-90°	2877.9	60.8
90°-120°	893.2	18.9
90°-150°	1606.2	34.0
90°-180°	1853.0	39.2
0°-180°	4730.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1118	1122	1118	1118	107
15°	1085	1074	1079	1075	1073	306
25°	999	988	992	984	982	460
35°	863	855	857	848	846	539
45°	702	697	697	690	690	540
55°	520	518	513	510	510	462
65°	308	302	295	293	294	307
75°	140	140	138	137	136	152
85°	32	35	36	36	36	38
90°	0	0	0	0	0	2
95°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.4	1124.4	1124.4	1124.4	1124.4
2.5°	1131.5	1122.3	1124.4	1122.7	1118.1
5°	1128.3	1117.8	1121.5	1117.5	1117.5
7.5°	1120.7	1109.1	1112.8	1108.8	1108.6
10°	1113.6	1102.0	1105.7	1101.7	1100.8
12.5°	1103.3	1091.8	1096.2	1091.5	1091.3
15°	1085.0	1074.4	1079.1	1075.1	1073.2
17.5°	1064.3	1052.7	1058.4	1052.8	1052.1
20°	1048.5	1037.0	1042.6	1034.7	1034.7
22.5°	1029.6	1018.0	1024.5	1014.2	1014.2
25°	999.3	987.7	992.4	983.5	982.5
27.5°	963.2	951.8	956.7	946.6	946.4
30°	937.2	926.6	932.2	921.4	920.4
32.5°	908.8	899.0	903.1	892.2	891.2
35°	863.3	854.6	857.3	847.5	846.5
37.5°	815.4	806.5	809.7	801.2	800.8
40°	781.5	775.7	776.5	769.6	767.7
42.5°	749.9	743.4	744.2	737.3	736.9
45°	701.6	696.8	696.7	689.8	689.8
47.5°	650.4	646.7	645.7	640.0	639.8
50°	614.9	612.0	611.0	606.0	605.1
52.5°	577.9	576.5	573.1	569.0	568.8
55°	520.3	518.4	513.4	510.4	509.5
57.5°	457.8	454.0	448.4	444.1	444.8
60°	412.9	409.1	401.1	399.1	399.1
62.5°	369.5	364.9	356.9	354.2	355.8
65°	307.5	301.7	294.7	292.7	293.7
67.5°	251.1	245.9	238.3	238.3	237.5
70°	214.8	211.9	206.0	206.0	206.0
72.5°	182.5	181.2	176.8	176.8	176.0
75°	139.9	139.9	138.0	137.0	136.0
77.5°	104.9	105.2	104.3	103.2	101.5
80°	82.8	84.7	83.8	82.8	81.8
82.5°	62.3	64.2	64.1	62.3	62.1
85°	32.5	35.4	35.5	35.5	35.5
87.5°	8.7	11.8	12.6	12.6	13.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)