

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: P561796

Luminaire Tested: **SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561796
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5227.9 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

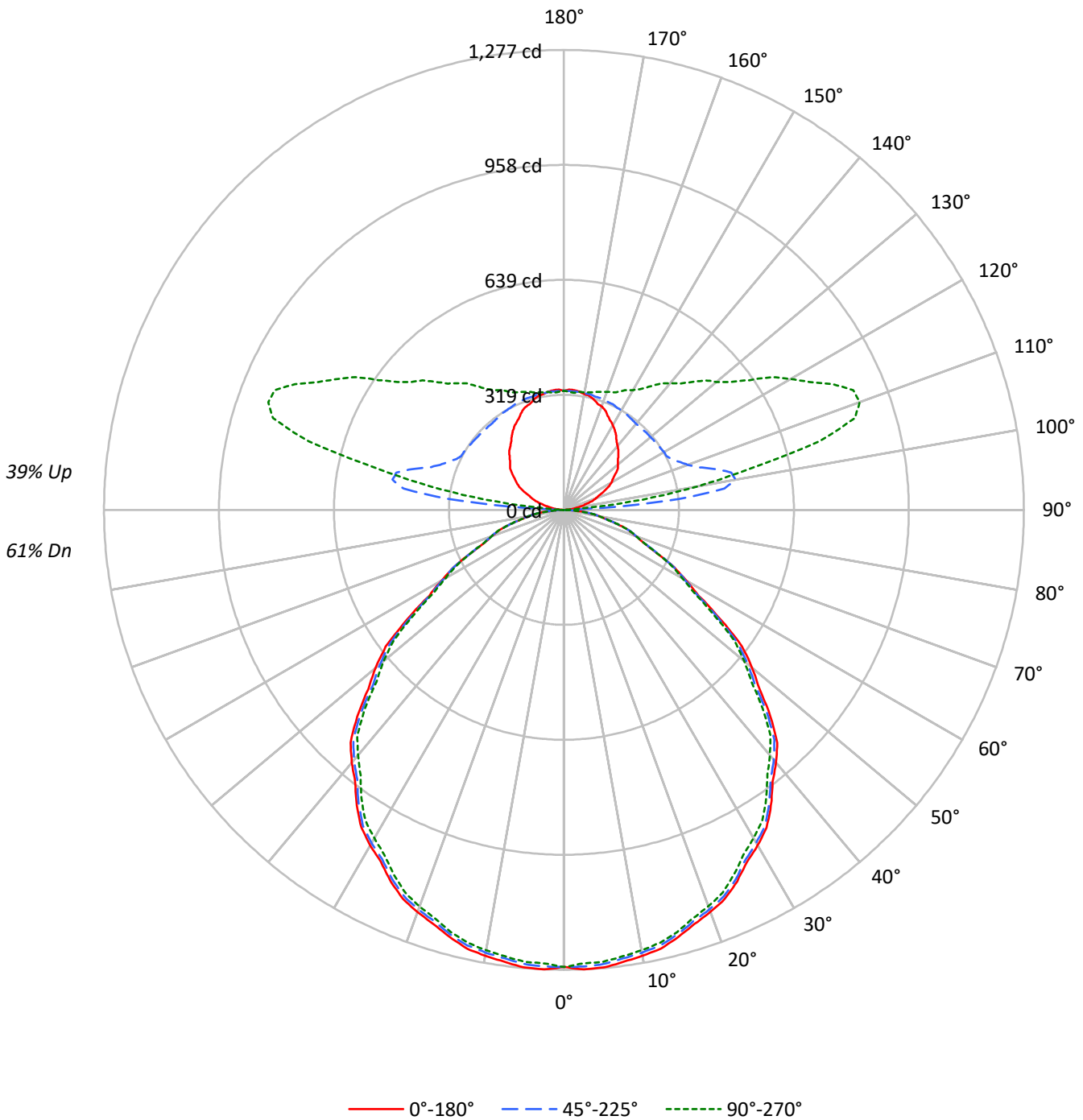
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	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	70	65	62	61	58	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	53	54	50	47	47	44	41	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	49	43	49	44	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	34	31	28	25
7	61	48	40	35	57	46	38	33	41	35	30	36	31	27	31	28	25	22
8	56	44	36	31	53	42	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11710	11710	11710
5°	11815	11724	11663
10°	11778	11696	11635
15°	11726	11653	11590
20°	11667	11592	11506
25°	11585	11506	11373
30°	11460	11378	11215
35°	11290	11192	11032
40°	11033	10914	10717
45°	10583	10398	10184
50°	9790	9555	9367
55°	8546	8353	8176
60°	7202	7141	6999
65°	6228	6252	6204
70°	5722	5751	5751
75°	5493	5493	5532
80°	5170	5228	5170
85°	4171	4626	4626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	2.3
10°-20°	343.4	6.6
20°-30°	517.9	9.9
30°-40°	617.1	11.8
40°-50°	608.4	11.6
50°-60°	465.0	8.9
60°-70°	287.8	5.5
70°-80°	163.4	3.1
80°-90°	49.7	1.0
90°-100°	150.8	2.9
100°-110°	428.9	8.2
110°-120°	411.0	7.9
120°-130°	325.3	6.2
130°-140°	261.1	5.0
140°-150°	204.4	3.9
150°-160°	149.6	2.9
160°-170°	92.6	1.8
170°-180°	31.4	0.6
0°-30°	981.4	18.8
0°-40°	1598.5	30.6
0°-60°	2671.9	51.1
0°-90°	3172.8	60.7
90°-120°	990.7	19.0
90°-150°	1781.4	34.1
90°-180°	2055.0	39.3
0°-180°	5227.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1276	1262	1266	1262	1259	121
15°	1228	1215	1220	1216	1213	346
25°	1138	1124	1130	1118	1117	524
35°	1002	991	994	981	980	626
45°	811	800	797	783	780	621
55°	531	523	519	510	508	476
65°	285	283	286	284	284	289
75°	154	154	154	155	155	163
85°	39	42	44	44	44	46
90°	0	0	0	0	0	2
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

TEST NUMBER: P561796

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1277.1	1265.9	1269.2	1266.4	1260.4
5°	1275.7	1261.8	1265.9	1261.5	1259.3
7.5°	1265.9	1252.2	1256.3	1251.9	1250.6
10°	1257.2	1244.3	1248.4	1244.0	1241.9
12.5°	1247.5	1233.9	1238.8	1233.5	1231.4
15°	1227.6	1214.8	1220.0	1215.6	1213.4
17.5°	1205.8	1192.1	1197.3	1192.2	1189.4
20°	1188.3	1175.5	1180.6	1173.0	1171.9
22.5°	1169.0	1156.2	1161.4	1151.1	1150.9
25°	1138.0	1124.1	1130.3	1118.3	1117.2
27.5°	1101.1	1088.2	1093.4	1081.1	1079.8
30°	1075.7	1062.9	1068.0	1054.9	1052.7
32.5°	1046.8	1034.9	1039.2	1026.0	1024.7
35°	1002.4	990.7	993.7	980.6	979.5
37.5°	951.9	941.3	943.0	928.5	927.5
40°	916.1	905.4	906.2	890.9	889.8
42.5°	876.7	866.0	865.1	849.8	848.7
45°	811.1	800.5	796.9	782.7	780.5
47.5°	736.4	725.7	719.1	707.5	706.0
50°	682.1	671.5	665.7	655.8	652.6
52.5°	623.5	612.9	608.0	599.0	595.8
55°	531.3	522.7	519.3	510.5	508.3
57.5°	443.6	437.8	436.8	428.3	427.4
60°	390.3	387.1	387.0	379.3	379.3
62.5°	344.8	342.4	344.1	339.1	338.2
65°	285.3	283.2	286.4	284.2	284.2
67.5°	238.3	238.3	240.3	239.4	239.4
70°	212.1	212.1	213.2	213.2	213.2
72.5°	188.5	187.6	190.4	190.4	189.6
75°	154.1	154.1	154.1	155.2	155.2
77.5°	120.0	120.2	121.1	120.9	120.0
80°	97.3	98.4	98.4	97.3	97.3
82.5°	74.6	75.6	75.6	75.4	74.6
85°	39.4	41.5	43.7	43.7	43.7
87.5°	11.4	14.8	17.5	17.5	16.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)