

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: P561795

Luminaire Tested: **SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561795
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

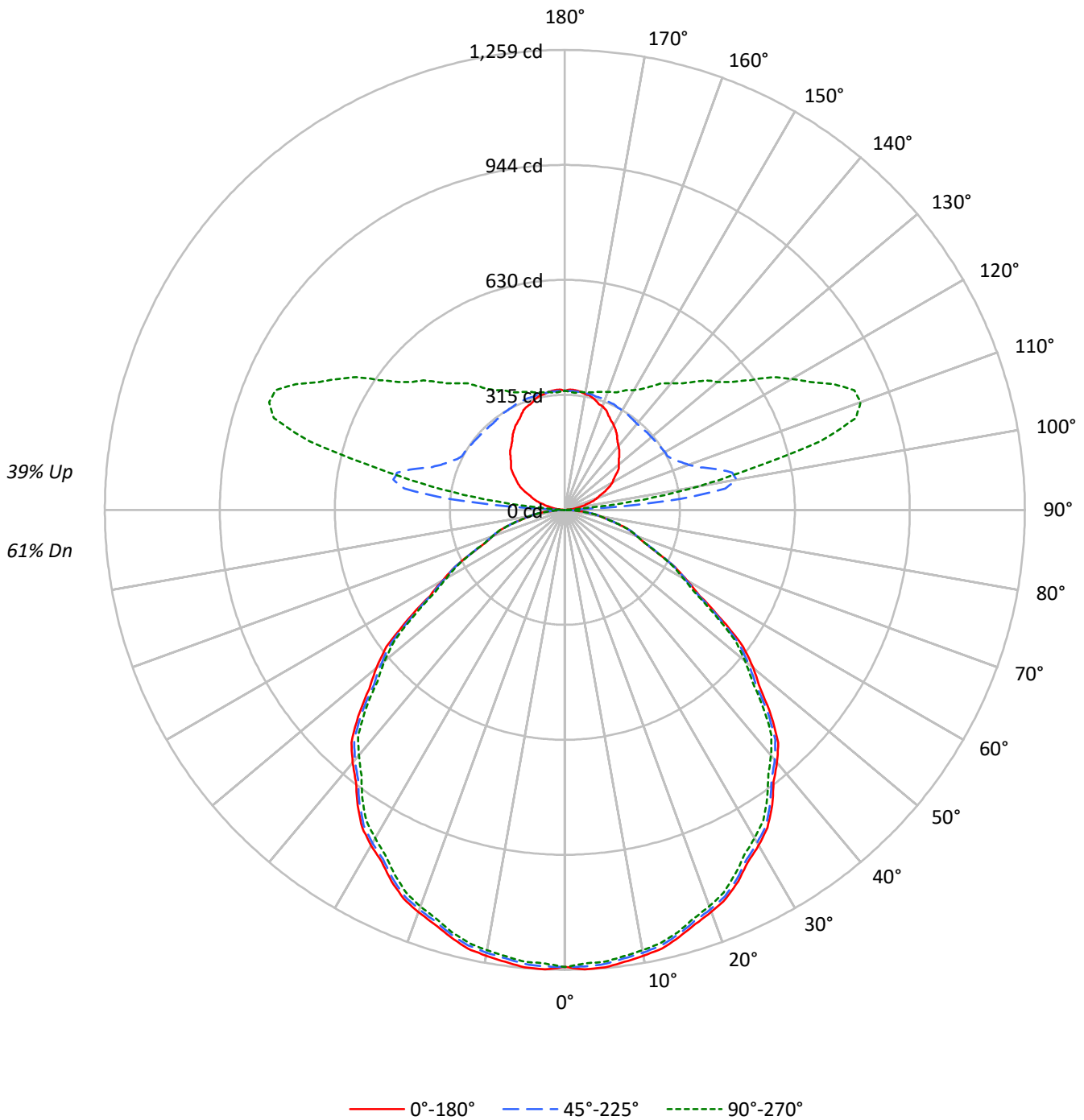
Lumens per Lamp: N/A
Luminaire Lumens: 5154.4 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P561795
CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561795

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

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°	11546	11546	11546
5°	11649	11559	11500
10°	11612	11532	11471
15°	11561	11490	11428
20°	11503	11430	11344
25°	11422	11346	11213
30°	11299	11218	11057
35°	11132	11034	10877
40°	10878	10761	10567
45°	10434	10252	10042
50°	9654	9422	9236
55°	8426	8236	8062
60°	7100	7041	6901
65°	6141	6165	6117
70°	5641	5670	5670
75°	5418	5418	5458
80°	5095	5154	5095
85°	4107	4563	4563



TEST NUMBER: P561795

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.3
10°-20°	338.6	6.6
20°-30°	510.7	9.9
30°-40°	608.5	11.8
40°-50°	599.9	11.6
50°-60°	458.5	8.9
60°-70°	283.7	5.5
70°-80°	161.2	3.1
80°-90°	49.0	1.0
90°-100°	148.6	2.9
100°-110°	422.9	8.2
110°-120°	405.2	7.9
120°-130°	320.7	6.2
130°-140°	257.4	5.0
140°-150°	201.5	3.9
150°-160°	147.4	2.9
160°-170°	91.3	1.8
170°-180°	31.0	0.6
0°-30°	967.6	18.8
0°-40°	1576.0	30.6
0°-60°	2634.4	51.1
0°-90°	3128.3	60.7
90°-120°	976.8	18.9
90°-150°	1756.4	34.1
90°-180°	2026.0	39.3
0°-180°	5154.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1258	1244	1248	1244	1242	119
15°	1210	1198	1203	1198	1196	342
25°	1122	1108	1114	1103	1102	516
35°	988	977	980	967	966	617
45°	800	789	786	772	770	613
55°	524	515	512	503	501	469
65°	281	279	282	280	280	285
75°	152	152	152	153	153	160
85°	39	41	43	43	43	45
90°	0	0	0	0	0	2
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

TEST NUMBER: P561795

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1259.1	1248.2	1251.4	1248.6	1242.7
5°	1257.8	1244.1	1248.1	1243.8	1241.7
7.5°	1248.1	1234.6	1238.6	1234.3	1233.0
10°	1239.5	1226.9	1230.9	1226.5	1224.4
12.5°	1230.0	1216.5	1221.4	1216.2	1214.1
15°	1210.4	1197.8	1202.9	1198.5	1196.4
17.5°	1188.8	1175.4	1180.4	1175.4	1172.7
20°	1171.6	1159.0	1164.1	1156.5	1155.4
22.5°	1152.6	1140.0	1145.1	1134.9	1134.7
25°	1122.0	1108.3	1114.5	1102.6	1101.5
27.5°	1085.6	1072.9	1078.0	1065.9	1064.7
30°	1060.6	1047.9	1053.0	1040.1	1037.9
32.5°	1032.1	1020.3	1024.6	1011.6	1010.4
35°	988.4	976.8	979.7	966.8	965.7
37.5°	938.6	928.0	929.7	915.5	914.4
40°	903.2	892.7	893.5	878.4	877.4
42.5°	864.4	853.9	853.0	837.9	836.8
45°	799.7	789.2	785.7	771.7	769.6
47.5°	726.0	715.5	709.0	697.5	696.1
50°	672.6	662.0	656.4	646.6	643.5
52.5°	614.8	604.3	599.5	590.6	587.4
55°	523.8	515.4	512.0	503.3	501.2
57.5°	437.4	431.7	430.7	422.3	421.4
60°	384.8	381.6	381.6	374.0	374.0
62.5°	339.9	337.6	339.3	334.3	333.5
65°	281.3	279.2	282.4	280.2	280.2
67.5°	235.0	235.0	236.9	236.0	236.0
70°	209.1	209.1	210.2	210.2	210.2
72.5°	185.8	185.0	187.8	187.7	186.9
75°	152.0	152.0	152.0	153.1	153.1
77.5°	118.3	118.6	119.4	119.2	118.3
80°	95.9	97.0	97.0	95.9	95.9
82.5°	73.5	74.6	74.6	74.4	73.5
85°	38.8	40.9	43.1	43.1	43.1
87.5°	11.2	14.6	17.2	17.2	16.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

TEST NUMBER: P561795

CATALOG NUMBER: SQ4-PR1-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)