

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: P564032

Luminaire Tested: **SQ4-PR1-050U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564032
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-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

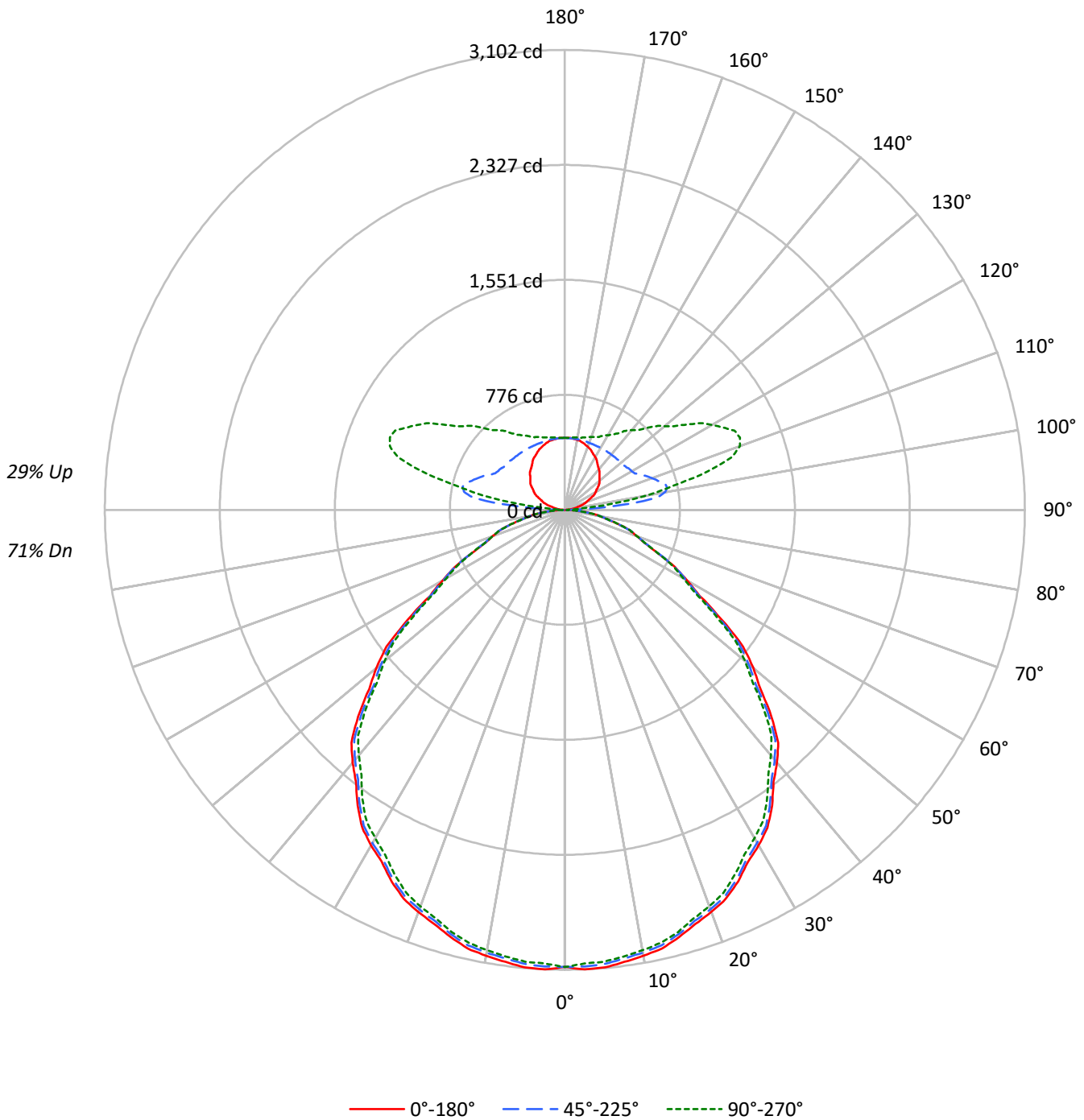
Lumens per Lamp: N/A
Luminaire Lumens: 10879.4 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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: P564032
CATALOG NUMBER: SQ4-PR1-050U-125D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564032

CATALOG NUMBER: SQ4-PR1-050U-125D-930-1D-UNV-STD-W-8

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14223	14223	14223
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13713	13594	13400
40°	13401	13257	13017
45°	12855	12630	12370
50°	11893	11606	11378
55°	10380	10145	9931
60°	8746	8674	8502
65°	7566	7595	7536
70°	6949	6984	6984
75°	6673	6673	6721
80°	6277	6349	6277
85°	5060	5621	5621



TEST NUMBER: P564032

CATALOG NUMBER: SQ4-PR1-050U-125D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	2.7
10°-20°	834.2	7.7
20°-30°	1258.2	11.6
30°-40°	1499.1	13.8
40°-50°	1478.0	13.6
50°-60°	1129.6	10.4
60°-70°	699.0	6.4
70°-80°	397.0	3.6
80°-90°	122.6	1.1
90°-100°	233.1	2.1
100°-110°	633.2	5.8
110°-120°	651.0	6.0
120°-130°	520.5	4.8
130°-140°	409.0	3.8
140°-150°	313.6	2.9
150°-160°	225.5	2.1
160°-170°	137.9	1.3
170°-180°	46.5	0.4
0°-30°	2383.9	21.9
0°-40°	3883.0	35.7
0°-60°	6490.6	59.7
0°-90°	7709.3	70.9
90°-120°	1517.2	13.9
90°-150°	2760.3	25.4
90°-180°	3170.0	29.1
0°-180°	10879.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3083	3083	3083	3083	3083	
5°	3099	3065	3075	3064	3059	294
15°	2982	2951	2964	2953	2948	842
25°	2764	2731	2746	2717	2714	1272
35°	2435	2407	2414	2382	2379	1520
45°	1970	1944	1936	1901	1896	1510
55°	1291	1270	1261	1240	1235	1156
65°	693	688	696	690	690	702
75°	374	374	374	377	377	395
85°	96	101	106	106	106	111
90°	2	6	11	14	14	6
95°	34	128	406	177	119	36
105°	112	175	696	1060	998	119
115°	200	243	557	1109	1263	197
125°	275	313	504	850	1002	245
135°	331	368	490	692	781	256
145°	382	410	484	588	632	240
155°	432	448	481	528	543	199
165°	468	474	482	503	504	132
175°	486	487	484	490	489	46
180°	486	486	486	486	486	

TEST NUMBER: P564032

CATALOG NUMBER: SQ4-PR1-050U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3083.1	3083.1	3083.1	3083.1	3083.1
2.5°	3102.2	3075.2	3083.1	3076.4	3061.9
5°	3099.0	3065.3	3075.1	3064.4	3059.2
7.5°	3075.1	3041.9	3051.8	3041.1	3038.0
10°	3053.9	3022.7	3032.6	3021.9	3016.7
12.5°	3030.5	2997.3	3009.3	2996.4	2991.2
15°	2982.2	2951.0	2963.6	2952.9	2947.7
17.5°	2929.1	2895.8	2908.4	2896.0	2889.2
20°	2886.6	2855.4	2868.0	2849.3	2846.8
22.5°	2839.8	2808.7	2821.3	2796.3	2795.8
25°	2764.4	2730.7	2745.8	2716.6	2714.0
27.5°	2674.7	2643.5	2656.1	2626.3	2623.2
30°	2613.1	2581.9	2594.5	2562.5	2557.3
32.5°	2543.0	2513.9	2524.4	2492.4	2489.3
35°	2435.1	2406.6	2413.9	2382.0	2379.4
37.5°	2312.5	2286.5	2290.7	2255.6	2253.0
40°	2225.4	2199.4	2201.5	2164.2	2161.6
42.5°	2129.8	2103.8	2101.6	2064.4	2061.8
45°	1970.4	1944.5	1935.9	1901.3	1896.1
47.5°	1788.8	1762.8	1746.8	1718.6	1715.0
50°	1657.1	1631.1	1617.2	1593.2	1585.4
52.5°	1514.7	1488.8	1477.0	1455.1	1447.3
55°	1290.6	1269.8	1261.4	1240.0	1234.8
57.5°	1077.6	1063.6	1061.2	1040.4	1038.3
60°	948.0	940.2	940.1	921.5	921.5
62.5°	837.6	831.8	836.0	823.7	821.6
65°	693.1	687.9	695.8	690.4	690.4
67.5°	578.9	578.9	583.7	581.6	581.6
70°	515.2	515.2	517.8	517.8	517.8
72.5°	457.8	455.7	462.6	462.6	460.5
75°	374.4	374.4	374.4	377.1	377.1
77.5°	291.6	292.1	294.2	293.7	291.6
80°	236.3	238.9	239.0	236.3	236.3
82.5°	181.1	183.7	183.8	183.2	181.1
85°	95.6	100.8	106.2	106.2	106.2
87.5°	27.9	37.2	44.7	45.3	43.2
90°	1.6	6.1	10.9	14.1	14.1
92.5°	14.1	63.8	110.8	47.6	40.3
95°	34.3	127.5	405.9	176.7	118.7
97.5°	56.8	140.8	622.3	484.1	340.0
100°	71.8	149.7	688.5	697.9	563.6
102.5°	86.8	158.5	706.0	863.1	744.7
105°	112.4	175.0	696.3	1060.2	997.6
107.5°	138.9	194.2	656.0	1161.9	1179.3
110°	157.7	208.1	626.0	1182.0	1256.8

TEST NUMBER: P564032

CATALOG NUMBER: SQ4-PR1-050U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.9	221.8	596.1	1165.3	1278.0
115°	199.8	242.6	557.3	1108.8	1263.0
117.5°	224.2	265.1	532.7	1028.7	1202.4
120°	240.4	280.1	521.4	975.0	1147.5
122.5°	254.2	293.8	513.9	921.1	1087.5
125°	274.8	312.9	504.3	849.6	1002.3
127.5°	293.2	331.0	499.0	795.4	926.4
130°	304.4	341.1	496.5	761.4	878.9
132.5°	315.7	352.3	494.0	732.4	836.5
135°	331.0	367.6	490.2	692.1	780.6
137.5°	347.5	380.8	488.3	656.5	730.9
140°	357.5	389.6	487.1	633.8	701.0
142.5°	367.5	397.1	485.8	616.1	672.2
145°	382.5	410.0	484.0	588.0	632.3
147.5°	399.4	422.9	482.4	565.9	600.7
150°	410.6	430.4	482.4	553.3	580.8
152.5°	419.3	436.7	481.2	541.9	564.5
155°	432.4	447.7	480.8	528.0	543.3
157.5°	445.3	457.2	480.8	518.6	530.2
160°	452.7	463.4	480.8	512.3	521.4
162.5°	460.2	468.5	482.1	507.2	513.9
165°	468.4	474.5	482.4	502.7	504.3
167.5°	476.8	479.8	484.0	497.4	498.6
170°	479.3	482.3	484.0	494.9	494.9
172.5°	481.8	483.6	484.0	492.4	492.4
175°	485.5	487.1	484.0	490.2	488.7
177.5°	486.8	486.8	483.0	488.0	485.5
180°	485.5	485.5	485.5	485.5	485.5

(END OF REPORT)