

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: P564128

Luminaire Tested: **SQ4-PR1-075U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564128
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

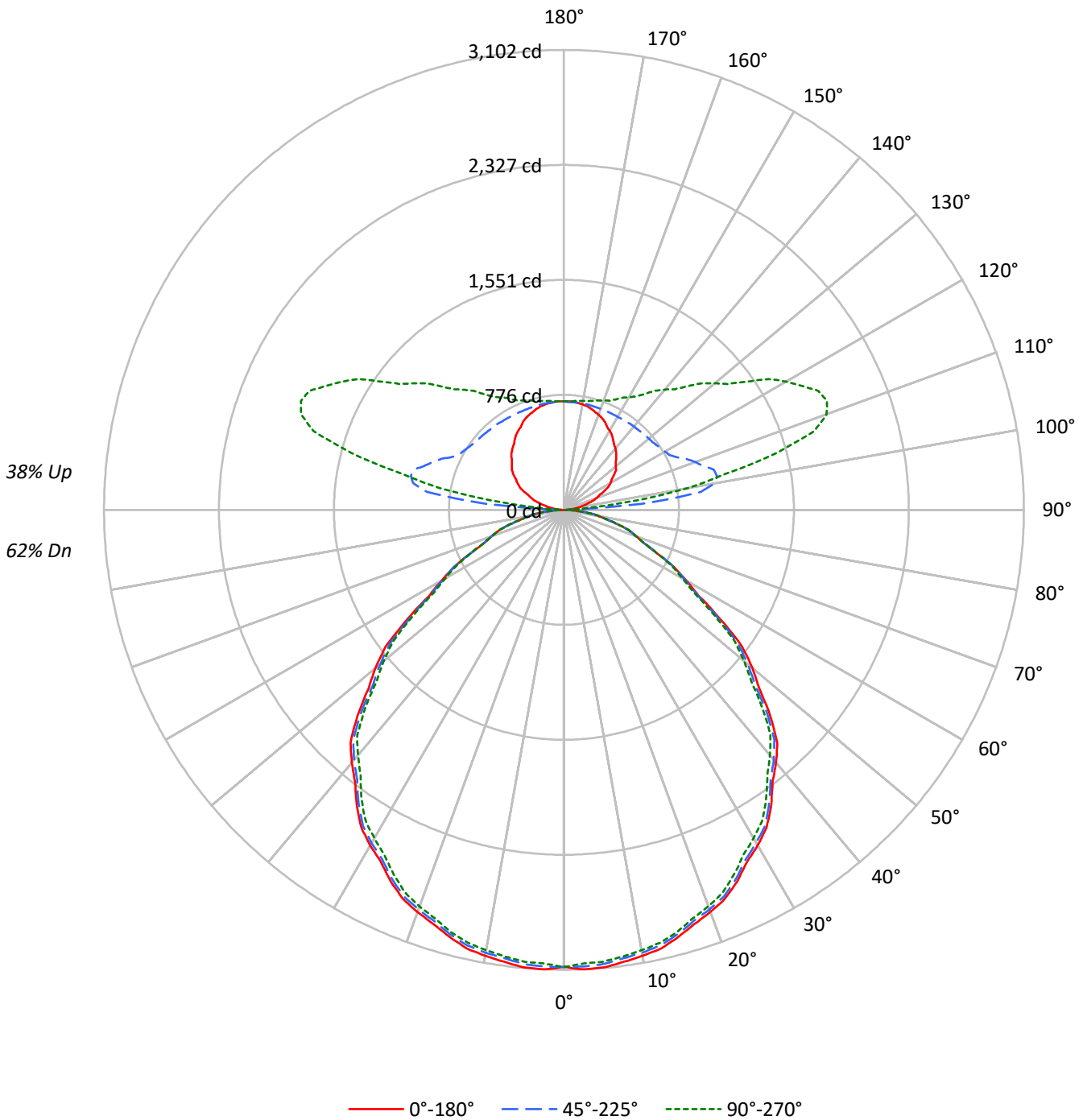
Lumens per Lamp: N/A
Luminaire Lumens: 12473.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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: P564128
CATALOG NUMBER: SQ4-PR1-075U-125D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564128

CATALOG NUMBER: SQ4-PR1-075U-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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62				
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	53				
2	92	85	79	74	86	80	74	70	70	66	62	61	58	55	53	51	49	45				
3	84	75	67	62	79	70	64	59	62	57	53	54	51	47	47	44	42	38				
4	77	66	59	53	72	63	56	50	55	50	45	49	44	41	42	39	36	33				
5	71	59	51	45	66	56	49	43	50	44	39	44	39	36	38	35	32	29				
6	66	53	45	39	61	51	43	38	45	39	35	40	35	31	35	31	28	26				
7	61	48	40	35	57	46	38	33	41	35	31	36	31	28	32	28	25	23				
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	23	20				
9	53	40	33	28	49	38	31	27	34	29	24	31	26	22	27	23	20	18				
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17				

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: P564128

CATALOG NUMBER: SQ4-PR1-075U-125D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	2.3
10°-20°	834.2	6.7
20°-30°	1258.2	10.1
30°-40°	1499.1	12.0
40°-50°	1478.0	11.8
50°-60°	1129.6	9.1
60°-70°	699.0	5.6
70°-80°	397.0	3.2
80°-90°	122.6	1.0
90°-100°	344.9	2.8
100°-110°	949.1	7.6
110°-120°	979.6	7.9
120°-130°	784.8	6.3
130°-140°	616.4	4.9
140°-150°	472.4	3.8
150°-160°	339.7	2.7
160°-170°	207.7	1.7
170°-180°	70.0	0.6
0°-30°	2383.9	19.1
0°-40°	3883.0	31.1
0°-60°	6490.6	52.0
0°-90°	7709.3	61.8
90°-120°	2273.6	18.2
90°-150°	4147.3	33.2
90°-180°	4765.0	38.2
0°-180°	12473.9	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	7
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

TEST NUMBER: P564128

CATALOG NUMBER: SQ4-PR1-075U-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	45.2	43.2
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0



TEST NUMBER: P564128

CATALOG NUMBER: SQ4-PR1-075U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)