

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: P563456

Luminaire Tested: **SQ4-PP3-075U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563456
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

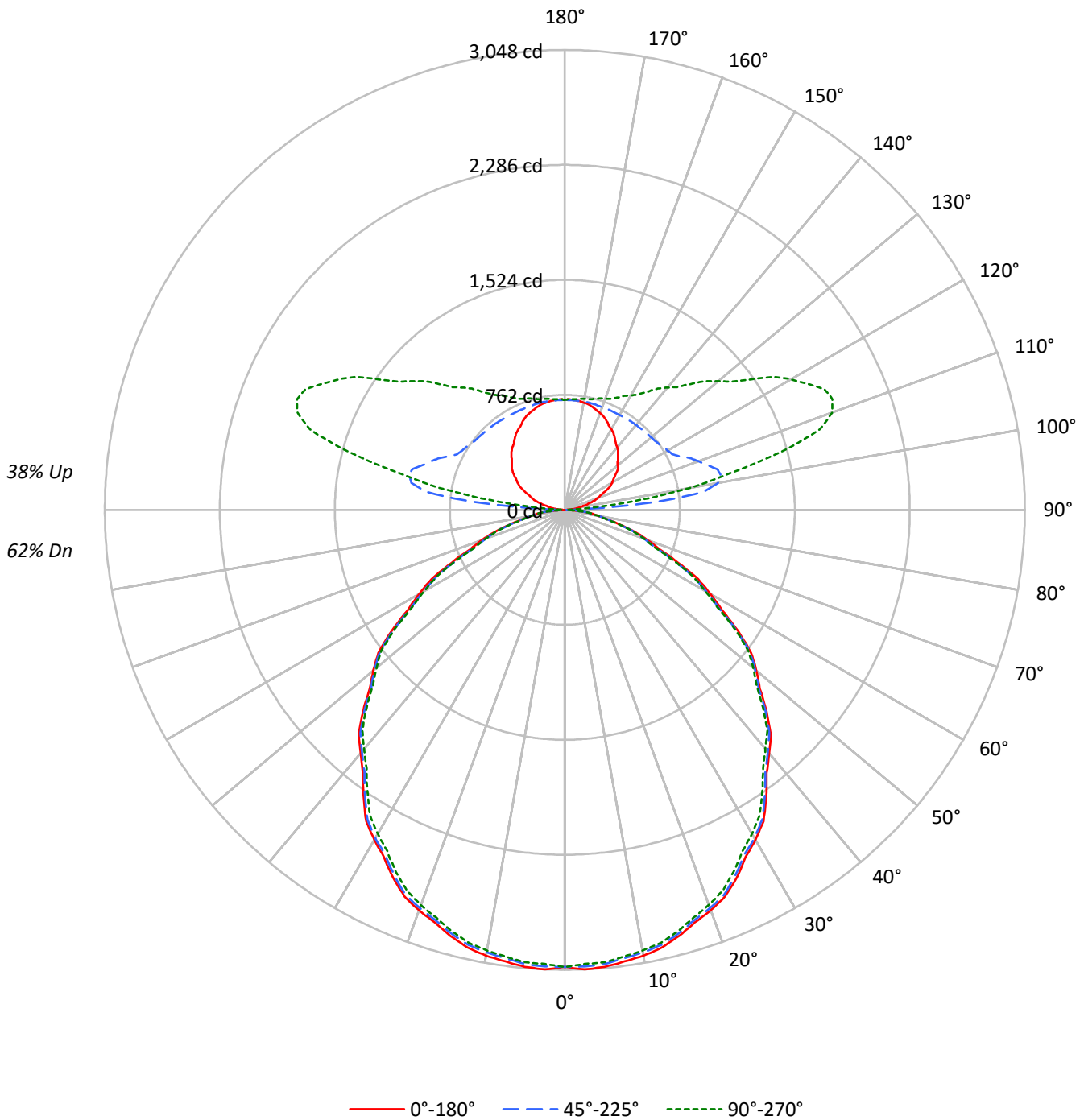
Lumens per Lamp: N/A
Luminaire Lumens: 12519.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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



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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	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	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	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13974	13974	13974
5°	14077	13991	13942
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13789	13685
25°	13703	13608	13473
30°	13449	13379	13209
35°	13097	13008	12843
40°	12679	12599	12455
45°	12332	12245	12125
50°	11890	11814	11699
55°	11274	11125	11039
60°	10263	9970	9920
65°	9041	8665	8636
70°	7807	7484	7484
75°	6720	6625	6531
80°	5924	5996	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	2.3
10°-20°	817.9	6.5
20°-30°	1225.1	9.8
30°-40°	1437.0	11.5
40°-50°	1441.5	11.5
50°-60°	1229.7	9.8
60°-70°	802.0	6.4
70°-80°	402.4	3.2
80°-90°	113.2	0.9
90°-100°	344.9	2.8
100°-110°	949.1	7.6
110°-120°	979.6	7.8
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°	2329.5	18.6
0°-40°	3766.4	30.1
0°-60°	6437.6	51.4
0°-90°	7755.2	61.9
90°-120°	2273.6	18.2
90°-150°	4147.3	33.1
90°-180°	4765.0	38.1
0°-180°	12519.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3029	3029	3029	3029	3029	
5°	3040	3011	3021	3011	3011	289
15°	2923	2894	2907	2896	2891	825
25°	2692	2661	2674	2650	2647	1238
35°	2326	2302	2310	2283	2281	1453
45°	1890	1877	1877	1858	1858	1456
55°	1402	1397	1383	1375	1373	1246
65°	828	813	794	789	791	827
75°	377	377	372	369	366	409
85°	88	95	96	96	96	103
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: P563456

CATALOG NUMBER: SQ4-PP3-075U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	3048.4	3023.5	3029.3	3024.7	3012.3
5°	3039.9	3011.3	3021.3	3010.7	3010.7
7.5°	3019.2	2988.0	2997.9	2987.3	2986.8
10°	3000.1	2968.9	2978.8	2968.2	2965.6
12.5°	2972.5	2941.3	2953.3	2940.6	2940.1
15°	2923.1	2894.5	2907.1	2896.4	2891.2
17.5°	2867.3	2836.2	2851.4	2836.5	2834.4
20°	2824.8	2793.7	2808.9	2787.7	2787.7
22.5°	2773.9	2742.7	2760.1	2732.5	2732.5
25°	2692.1	2660.9	2673.5	2649.6	2647.0
27.5°	2594.9	2564.3	2577.4	2550.3	2549.8
30°	2524.8	2496.3	2511.6	2482.3	2479.7
32.5°	2448.4	2421.9	2433.0	2403.7	2401.1
35°	2325.7	2302.4	2309.8	2283.2	2280.6
37.5°	2196.7	2172.8	2181.3	2158.4	2157.4
40°	2105.4	2089.8	2092.1	2073.4	2068.2
42.5°	2020.4	2002.7	2005.0	1986.4	1985.4
45°	1890.3	1877.3	1877.0	1858.5	1858.5
47.5°	1752.3	1742.4	1739.5	1724.1	1723.6
50°	1656.7	1648.9	1646.1	1632.7	1630.1
52.5°	1556.9	1553.2	1544.1	1532.9	1532.4
55°	1401.8	1396.6	1383.2	1375.2	1372.6
57.5°	1233.5	1223.1	1208.0	1196.4	1198.4
60°	1112.4	1102.0	1080.6	1075.2	1075.2
62.5°	995.6	983.1	961.6	954.3	958.4
65°	828.3	812.8	793.8	788.6	791.2
67.5°	676.5	662.5	642.0	641.9	639.8
70°	578.8	571.0	554.9	554.9	554.9
72.5°	491.7	488.1	476.3	476.2	474.2
75°	377.0	377.0	371.7	369.0	366.4
77.5°	282.5	283.5	280.9	278.1	273.5
80°	223.0	228.2	225.7	223.0	220.4
82.5°	167.8	173.0	172.6	167.8	167.3
85°	87.6	95.4	95.6	95.6	95.6
87.5°	23.7	32.9	36.2	36.8	38.9
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: P563456

CATALOG NUMBER: SQ4-PP3-075U-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)