

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: P563360

Luminaire Tested: **SQ4-PP3-050U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563360
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

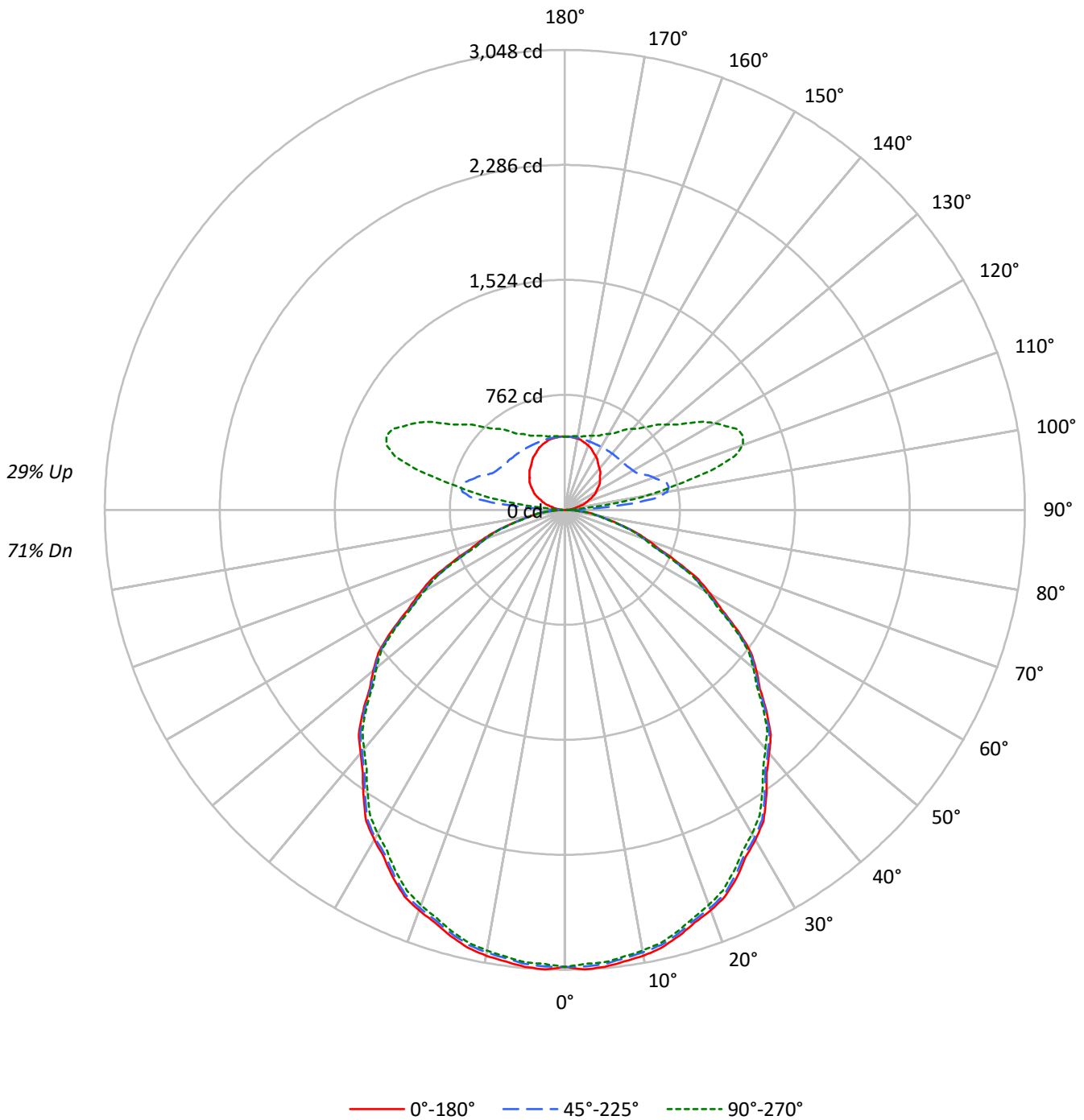
Lumens per Lamp: N/A
Luminaire Lumens: 10925.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

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	2.6
10°-20°	817.9	7.5
20°-30°	1225.1	11.2
30°-40°	1437.0	13.2
40°-50°	1441.5	13.2
50°-60°	1229.7	11.3
60°-70°	802.0	7.3
70°-80°	402.4	3.7
80°-90°	113.2	1.0
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	3.7
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°	2329.5	21.3
0°-40°	3766.4	34.5
0°-60°	6437.6	58.9
0°-90°	7755.2	71.0
90°-120°	1517.2	13.9
90°-150°	2760.3	25.3
90°-180°	3170.0	29.0
0°-180°	10925.3	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	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	

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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	14.1	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



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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)