

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: P562692

Luminaire Tested: **SQ4-PC3-050U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562692
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

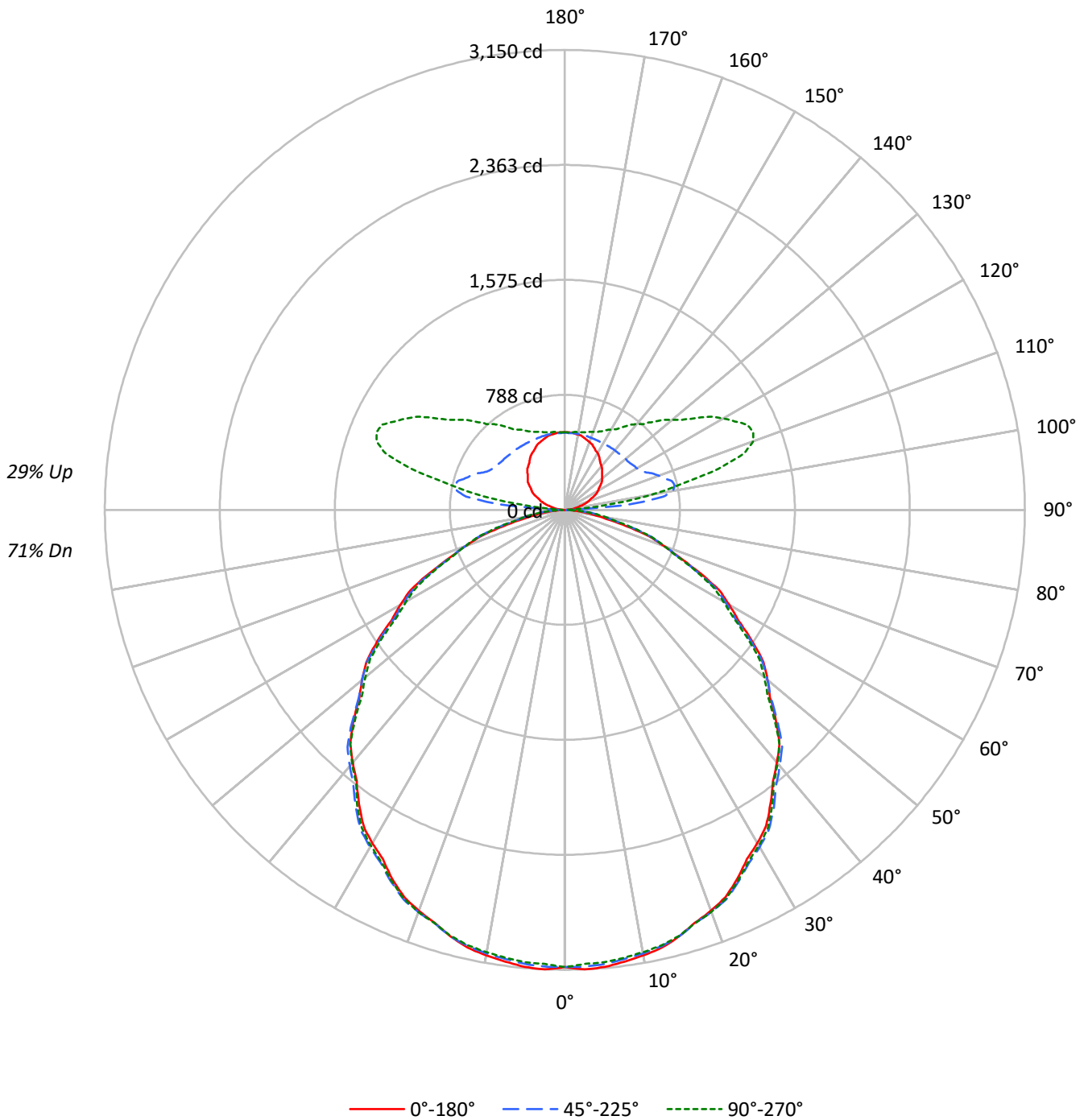
Lumens per Lamp: N/A
Luminaire Lumens: 12010.3 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	71	
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	64	64	64	60	
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	54	54	54	50	
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	46	46	46	43	
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	40	40	40	37	
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	34	34	34	32	
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	30	30	30	28	
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	27	27	27	25	
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	24	24	24	22	
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	22	22	22	20	
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	20	20	20	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12243
60°	11985	11744	11557
65°	11078	10857	10762
70°	9699	9777	9738
75°	7803	8630	8682
80°	5547	7319	7396
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	2.5
10°-20°	850.5	7.1
20°-30°	1288.0	10.7
30°-40°	1544.1	12.9
40°-50°	1574.5	13.1
50°-60°	1374.4	11.4
60°-70°	984.0	8.2
70°-80°	506.8	4.2
80°-90°	130.2	1.1
90°-100°	254.5	2.1
100°-110°	691.4	5.8
110°-120°	710.8	5.9
120°-130°	568.3	4.7
130°-140°	446.6	3.7
140°-150°	342.4	2.9
150°-160°	246.2	2.1
160°-170°	150.6	1.3
170°-180°	50.7	0.4
0°-30°	2434.8	20.3
0°-40°	3979.0	33.1
0°-60°	6927.8	57.7
0°-90°	8548.8	71.2
90°-120°	1656.7	13.8
90°-150°	3014.0	25.1
90°-180°	3462.0	28.8
0°-180°	12010.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3132	3132	3132	3132	3132	
5°	3143	3112	3123	3114	3111	298
15°	3024	2999	3024	3024	3021	853
25°	2792	2772	2813	2804	2804	1285
35°	2456	2450	2494	2476	2476	1536
45°	2047	2042	2062	2035	2030	1576
55°	1566	1546	1546	1522	1522	1396
65°	1015	992	995	986	986	1004
75°	438	458	484	487	487	473
85°	64	98	116	119	116	87
90°	2	7	12	15	15	5
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3131.6	3131.6	3131.6	3131.6	3131.6
2.5°	3150.2	3122.9	3131.6	3124.4	3113.0
5°	3143.2	3112.0	3122.9	3114.1	3111.3
7.5°	3120.6	3089.4	3103.8	3097.9	3095.1
10°	3099.7	3068.5	3085.2	3079.3	3076.5
12.5°	3071.9	3043.0	3062.0	3056.2	3055.6
15°	3024.3	2998.8	3024.3	3024.3	3021.4
17.5°	2964.6	2941.3	2968.6	2970.3	2968.6
20°	2922.8	2897.3	2931.5	2928.7	2931.5
22.5°	2871.8	2850.8	2887.5	2880.0	2882.8
25°	2792.3	2772.5	2812.6	2803.9	2803.9
27.5°	2698.4	2684.2	2728.0	2718.7	2718.7
30°	2635.8	2621.6	2667.7	2656.1	2656.1
32.5°	2566.2	2556.5	2600.4	2586.5	2586.5
35°	2456.0	2450.3	2493.7	2476.3	2476.3
37.5°	2342.3	2337.2	2376.5	2355.5	2348.7
40°	2258.8	2256.0	2290.7	2267.5	2267.5
42.5°	2175.3	2172.5	2202.6	2174.7	2174.7
45°	2047.1	2041.5	2061.6	2035.4	2029.7
47.5°	1907.4	1901.7	1914.3	1885.9	1883.0
50°	1812.3	1806.6	1812.3	1786.1	1783.3
52.5°	1714.8	1704.6	1705.6	1679.5	1678.9
55°	1565.8	1546.0	1545.5	1522.3	1522.3
57.5°	1408.1	1382.0	1384.3	1364.5	1361.7
60°	1299.0	1270.7	1272.9	1255.5	1252.6
62.5°	1192.3	1159.4	1166.2	1146.5	1145.9
65°	1014.9	992.2	994.6	985.9	985.9
67.5°	844.4	823.4	838.6	831.6	831.0
70°	719.1	704.9	724.9	724.8	722.0
72.5°	603.1	602.6	627.5	627.5	629.2
75°	437.8	457.7	484.2	487.1	487.1
77.5°	292.3	327.4	356.7	357.8	357.2
80°	208.8	248.5	275.5	281.2	278.4
82.5°	141.5	183.5	205.9	211.6	208.8
85°	63.8	97.8	116.0	118.8	116.0
87.5°	18.9	40.3	48.8	49.4	44.8
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)