

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: P563357

Luminaire Tested: **SQ4-PP3-050U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563357
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-12
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

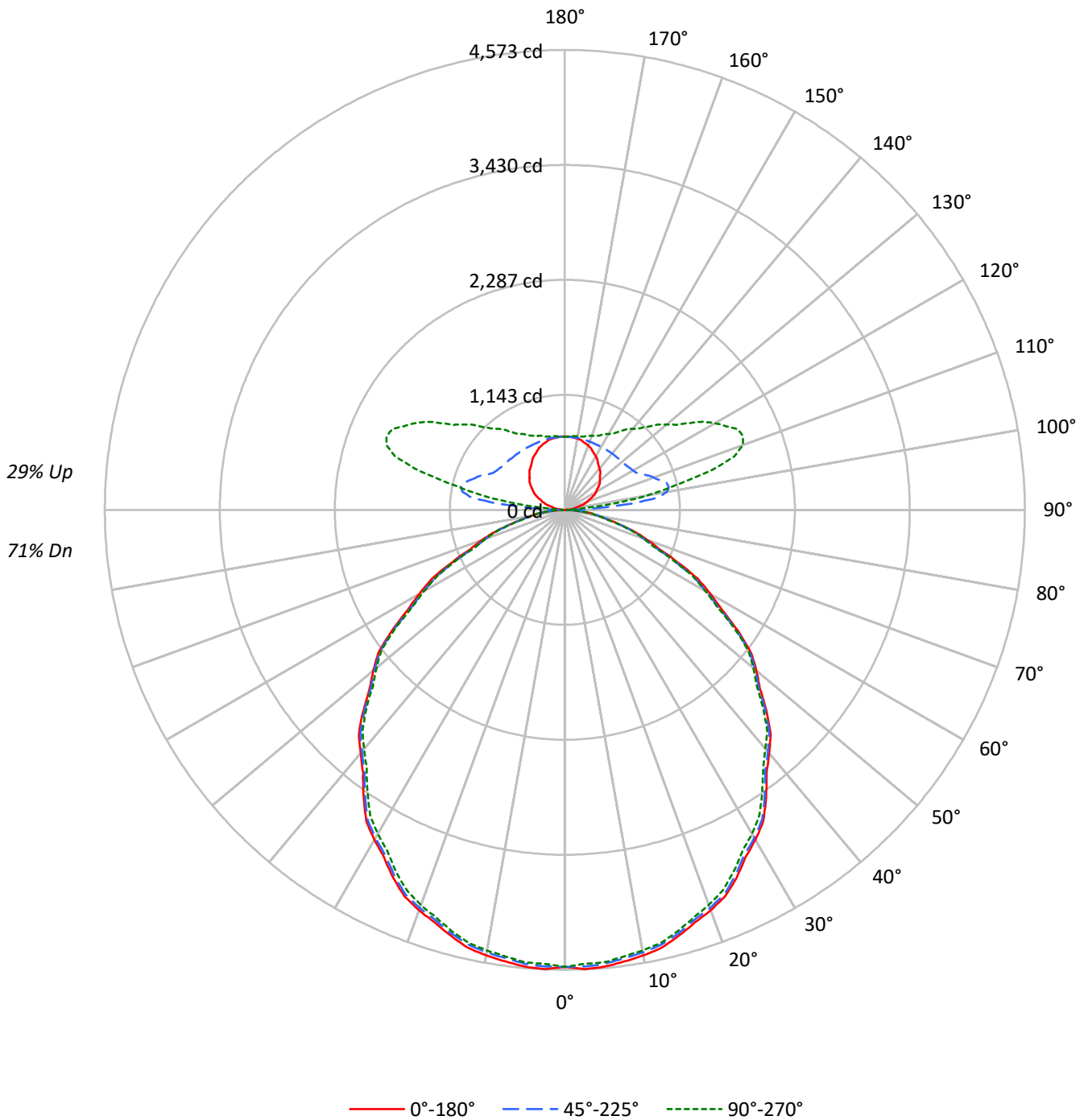
Lumens per Lamp: N/A
Luminaire Lumens: 16388.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 167
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: P563357
CATALOG NUMBER: SQ4-PP3-050U-125D-930-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563357

CATALOG NUMBER: SQ4-PP3-050U-125D-930-1D-UNV-STD-W-12

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	13891
15°	13960	13884	13808
20°	13868	13790	13685
25°	13703	13608	13473
30°	13449	13378	13209
35°	13097	13008	12843
40°	12678	12598	12455
45°	12332	12246	12124
50°	11889	11813	11699
55°	11274	11125	11039
60°	10263	9969	9921
65°	9042	8665	8636
70°	7807	7484	7484
75°	6720	6624	6531
80°	5924	5995	5853
85°	4637	5060	5060



TEST NUMBER: P563357

CATALOG NUMBER: SQ4-PP3-050U-125D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	2.6
10°-20°	1226.9	7.5
20°-30°	1837.7	11.2
30°-40°	2155.5	13.2
40°-50°	2162.2	13.2
50°-60°	1844.5	11.3
60°-70°	1202.9	7.3
70°-80°	603.5	3.7
80°-90°	169.8	1.0
90°-100°	349.6	2.1
100°-110°	949.7	5.8
110°-120°	976.5	6.0
120°-130°	780.7	4.8
130°-140°	613.5	3.7
140°-150°	470.4	2.9
150°-160°	338.3	2.1
160°-170°	206.9	1.3
170°-180°	69.7	0.4
0°-30°	3494.2	21.3
0°-40°	5649.7	34.5
0°-60°	9656.4	58.9
0°-90°	11632.7	71.0
90°-120°	2275.9	13.9
90°-150°	4140.4	25.3
90°-180°	4755.0	29.0
0°-180°	16388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4544	4544	4544	4544	4544	
5°	4560	4517	4532	4516	4516	433
15°	4385	4342	4361	4345	4337	1237
25°	4038	3991	4010	3974	3970	1857
35°	3489	3454	3465	3425	3421	2179
45°	2836	2816	2816	2788	2788	2183
55°	2103	2095	2075	2063	2059	1869
65°	1242	1219	1191	1183	1187	1240
75°	566	566	558	554	550	613
85°	131	143	143	143	143	154
90°	2	9	16	21	21	8
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

TEST NUMBER: P563357

CATALOG NUMBER: SQ4-PP3-050U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4543.9	4543.9	4543.9	4543.9	4543.9
2.5°	4572.6	4535.2	4543.9	4537.1	4518.4
5°	4559.8	4517.0	4532.0	4516.0	4516.0
7.5°	4528.8	4482.1	4496.9	4481.0	4480.2
10°	4500.1	4453.4	4468.2	4452.2	4448.3
12.5°	4458.7	4412.0	4430.0	4410.9	4410.1
15°	4384.6	4341.8	4360.7	4344.6	4336.8
17.5°	4301.0	4254.3	4277.1	4254.7	4251.6
20°	4237.3	4190.5	4213.4	4181.5	4181.5
22.5°	4160.8	4114.1	4140.1	4098.7	4098.7
25°	4038.1	3991.4	4010.3	3974.3	3970.4
27.5°	3892.4	3846.4	3866.1	3825.5	3824.7
30°	3787.3	3744.4	3767.3	3723.5	3719.6
32.5°	3672.6	3632.8	3649.5	3605.6	3601.7
35°	3488.6	3453.5	3464.7	3424.8	3420.9
37.5°	3295.0	3259.2	3271.9	3237.7	3236.1
40°	3158.0	3134.7	3138.1	3110.1	3102.3
42.5°	3030.6	3004.1	3007.5	2979.6	2978.0
45°	2835.5	2816.0	2815.6	2787.7	2787.7
47.5°	2628.4	2613.6	2609.3	2586.1	2585.4
50°	2485.0	2473.3	2469.1	2449.1	2445.2
52.5°	2335.3	2329.8	2316.2	2299.4	2298.6
55°	2102.7	2094.9	2074.8	2062.8	2058.9
57.5°	1850.2	1834.6	1812.0	1794.5	1797.7
60°	1668.6	1653.0	1620.8	1612.9	1612.9
62.5°	1493.4	1474.7	1442.4	1431.4	1437.6
65°	1242.5	1219.1	1190.7	1182.9	1186.8
67.5°	1014.7	993.7	962.9	962.9	959.8
70°	868.2	856.5	832.3	832.3	832.3
72.5°	737.5	732.1	714.4	714.4	711.3
75°	565.5	565.5	557.5	553.5	549.6
77.5°	423.7	425.3	421.3	417.2	410.2
80°	334.5	342.3	338.5	334.4	330.5
82.5°	251.7	259.5	258.9	251.7	250.9
85°	131.4	143.1	143.4	143.4	143.4
87.5°	35.5	49.3	54.3	55.3	58.4
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1



TEST NUMBER: P563357

CATALOG NUMBER: SQ4-PP3-050U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)