

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: P562675

Luminaire Tested: **SQ4-PC3-050U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562675
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-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

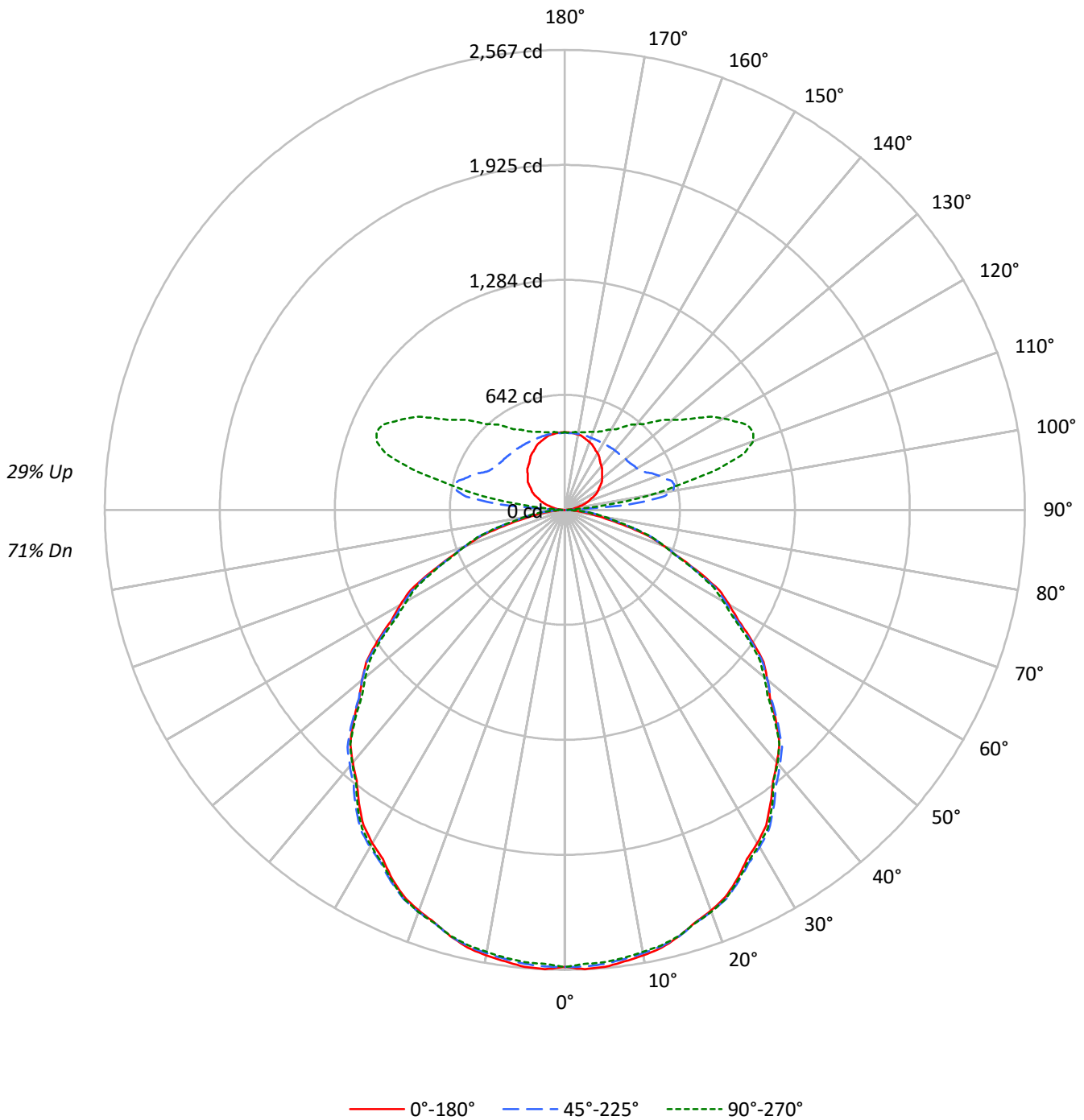
Lumens per Lamp: N/A
Luminaire Lumens: 9785.2 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15709	15651
10°	15773	15699	15655
15°	15690	15690	15676
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15256	15149
40°	14776	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13020	12758	12555
65°	12035	11793	11690
70°	10537	10621	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3670	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	2.5
10°-20°	692.9	7.1
20°-30°	1049.4	10.7
30°-40°	1258.0	12.9
40°-50°	1282.8	13.1
50°-60°	1119.8	11.4
60°-70°	801.7	8.2
70°-80°	412.9	4.2
80°-90°	106.1	1.1
90°-100°	207.4	2.1
100°-110°	563.3	5.8
110°-120°	579.1	5.9
120°-130°	463.0	4.7
130°-140°	363.8	3.7
140°-150°	279.0	2.9
150°-160°	200.6	2.1
160°-170°	122.7	1.3
170°-180°	41.3	0.4
0°-30°	1983.8	20.3
0°-40°	3241.8	33.1
0°-60°	5644.4	57.7
0°-90°	6965.0	71.2
90°-120°	1349.8	13.8
90°-150°	2455.6	25.1
90°-180°	2820.0	28.8
0°-180°	9785.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2551	2551	2551	2551	2551	
5°	2561	2536	2544	2537	2535	243
15°	2464	2443	2464	2464	2462	695
25°	2275	2259	2292	2284	2284	1047
35°	2001	1996	2032	2018	2018	1251
45°	1668	1663	1680	1658	1654	1284
55°	1276	1260	1259	1240	1240	1137
65°	827	808	810	803	803	818
75°	357	373	394	397	397	385
85°	52	80	94	97	94	71
90°	1	6	10	12	12	4
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2551.4	2551.4	2551.4	2551.4	2551.4
2.5°	2566.6	2544.4	2551.4	2545.6	2536.3
5°	2560.9	2535.5	2544.3	2537.2	2534.9
7.5°	2542.5	2517.0	2528.8	2524.0	2521.7
10°	2525.4	2500.0	2513.6	2508.9	2506.5
12.5°	2502.8	2479.2	2494.7	2490.0	2489.5
15°	2464.0	2443.2	2464.0	2464.0	2461.7
17.5°	2415.4	2396.4	2418.7	2420.0	2418.7
20°	2381.3	2360.5	2388.4	2386.1	2388.4
22.5°	2339.8	2322.7	2352.5	2346.4	2348.7
25°	2275.0	2258.9	2291.6	2284.5	2284.5
27.5°	2198.5	2186.9	2222.6	2215.0	2215.0
30°	2147.5	2135.9	2173.4	2164.0	2164.0
32.5°	2090.8	2082.9	2118.6	2107.3	2107.3
35°	2001.0	1996.4	2031.7	2017.5	2017.5
37.5°	1908.4	1904.2	1936.3	1919.1	1913.6
40°	1840.3	1838.0	1866.3	1847.4	1847.4
42.5°	1772.3	1770.0	1794.5	1771.8	1771.8
45°	1667.9	1663.3	1679.7	1658.3	1653.7
47.5°	1554.0	1549.4	1559.7	1536.5	1534.2
50°	1476.5	1471.9	1476.5	1455.2	1452.9
52.5°	1397.1	1388.8	1389.6	1368.3	1367.9
55°	1275.7	1259.5	1259.2	1240.3	1240.3
57.5°	1147.2	1125.9	1127.8	1111.7	1109.4
60°	1058.4	1035.3	1037.1	1022.9	1020.6
62.5°	971.4	944.6	950.2	934.1	933.6
65°	826.9	808.4	810.3	803.2	803.2
67.5°	687.9	670.8	683.2	677.5	677.1
70°	585.9	574.3	590.6	590.6	588.2
72.5°	491.4	490.9	511.2	511.3	512.6
75°	356.7	372.9	394.5	396.9	396.9
77.5°	238.1	266.8	290.6	291.5	291.1
80°	170.1	202.4	224.4	229.1	226.8
82.5°	115.3	149.5	167.7	172.4	170.1
85°	52.0	79.7	94.5	96.8	94.5
87.5°	15.4	32.8	39.7	40.2	36.5
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)